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N.-W. P. AND OUDH.

FOREST DEPARTMENT.

ANNUAL PROGRESS REPORT OF ADMINISTRATION,

For the year ending 31st March 1893.

Price Rs. 4.

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FOREST DEPARTMENT, CENTRAL CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

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No. 95 of 1893-94.

From

H. C. HILL, Esq.,

Conservator of Forests, Central Circle,

North-Western Provinces and Oudh,

To

The SECRETARY to GOVERNMENT,

North-Western Provinces and Oudh,

Revenue (Forests) Department.

Dated Naini Tal, the 4th October 1893.

Sir,

I have the honor to submit the Annual Forest Administration Report of the Central Circle for the year 1892-93.

2. The Reports of Divisional Officers were punctually submitted, with the exception of that of the Ganges Division, which was received 15 days after the due date.

The returns from the Comptroller were not received till the 18th of September, and unless arrangements can be made for the earlier compilation of these returns, the submission of the report even in manuscript on the 1st October, the date prescribed by the Code, must be an extremely difficult task, and its submission in print, as has been customary, an impossibility.

I have the honour to be,

Sir,

Your most obedient servant,

H. C. HILL,

Conservator of Forests, Central Circle,

N.-W. Provinces and Oudh.

CENTRAL CIRCLE REPORT.

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PROGRESS REPORT

OF

FOREST ADMINISTRATION IN THE CENTRAL CIRCLE.

OF THE

N.-W. PROVINCES AND OUDH,

For the year 1892-93.

CHAPTER I.—EXTENSION AND CONSTITUTION OF STATE FORESTS.

1.—ALTERATION OF AREA.

Changes during the year.

THE forests at the commencement and close of the year comprised :—

Class of forest.	Area on 1st April 1892.		Area on 30th June 1893.	
	Acres.	Square miles.	Acres.	Square miles.
Reserved	11,08,892	1,733	10,90,472	1,704
Protected	59,869	94	60,348	94
Unclassed	22,507	35	20,457	32
Total ...	11,91,268	1,862	11,71,277	1,830

Alterations of Areas.

2. The alterations of areas under the three classes of forests are explained below under each class.

(a.)—*Reserved Forests.*

Reserved Forests.

The area of the Reserved Forests, which was reported as 11,08,892 acres. at the commencement of the year, was reduced by 18,420 acres, and stood at 10,90,472 acres or 1,704 square miles at the close of the year.

The more accurate calculation of areas on recently published maps accounts for a net decrease of 19,910 acres, 689 acres were lost to the Department by the decision of a Civil Court, 16 acres were disafforested under section 26 of Act VII, while additional reservation contributed 2,195 acres.

The Naini Tal Division lost 1,050 acres transferred to the Kumaun Division in rectification of Divisional boundaries, 2,314 acres, by correction of the acreage of the Dolmar-Mora reserve, and it gained 145 acres by the reservation of a plot of Cantonment land adjoining the Ránikhet Reserve, to which reference was made in last year's report.

In the Kumaun Division the area was increased by the 1,050 acres transferred from the Naini Tal Division, and diminished by 16 acres disafforested in 1891, but hitherto included in the returns.

The alterations in the Garhwál Division are wholly due to the correction of area statements, by which 21 square miles have been written off.

Ganges Division. The chief addition was made up of the Paniali and Lalpani forests with an area of 2,050 acres, reserved in exchange for the Papidanda forest previously disafforested as 2,300 acres. The diminution of area was due to corrections of acreage, and to the abandonment of some islands of the Chandi Reserve, which under a decree of the Court were made over to the Landhaura estate as the property of the Ranis and not of Government. A notification revising the boundaries of the Chandi Reserve in accordance with the above legal decision has been published. In connection with the revision of the area statements of this Division, it has been found necessary to strike off 1,559 acres, representing the area of the actual Cantonment at Lansdowne, from the reserved area, within which it had hitherto been erroneously included.

In the Bundelkhand Division additions and curtailments are entirely due to the more correct area statements furnished by the Survey Department.

The Reserved Forests are distributed over the several Divisions as follows :—

						Square miles.
Naini Tal Division	...	...	...	...	...	56
Kumaun "	...	...	...	...	...	474
Garhwál "	...	...	...	...	...	470
Ganges "	...	...	...	...	...	432
Bundelkhand "	...	...	...	...	...	272
						1,704 sqr. miles

(*b.*)—*Protected Forests.*

Protected Forests.

3. The area of the Protected Forests remained practically unchanged.

There are cross-entries of 20 and 15 acres in the return of the Naini Tal Division, which reduce the total area by 5 acres. They represent the rectification of a mistake made last year, by which the area of Padholi was wrongly reduced by 52 instead of 37 acres, and Deolikhet of 20 acres, which went to complete the area given in exchange for the 145 acres added to the Ránikhet Reserve, and which was by an omission not excluded.

The correction of areas in the Bundelkhand Division added 484 acres.

(*c.*)—*Unclassed Forests.*

Unclassed Forests.

4. The only change in the area of the Unclassed Forests is that caused by the reservation of the Paniali and Lalpani Forests in the Ganges Division with an area of 2,050 acres.

II.—Forest Settlements.

Forest settlements.

5. The areas finally settled and notified during the year were, as already stated, the Lalpanidhar and Paniali Reserves, and a slight addition to the Ránikhet Reserve.

Areas under settlement in the Kumáun Civil Division.

6. The entries in Form No. 47, which show 1,185 square miles of the Reserved Forests borne on the Register of Reserves as still under settlement, are explained by the fact that the extensive Submontane Reserves gazetted originally under section 34 of Act VII, are in a measure undergoing settlement, because in certain respects the enquiry record and settlement of rights, hitherto conducted in regard to them, could not be held to be complete and final in the manner provided by the Act. It was therefore decided, as explained in last year's report, to place them under a duly appointed Forest Settlement Officer, who should complete the record and give it the desirable legal finality. The Forest Settlement Officer has completed his enquiry and is about to issue his orders, in the shape, it is believed, of a full record of all rights, which, after the lapse of the period allowed for appeals, will accomplish the settlement of these areas.

Areas under settlement in the Bijnor District.

7. The Mohanwali and Amsot proposed reserves, aggregating nearly eight square miles, are under settlement in the Bijnor District, and the small Baldhauti plantation, as well as a forty-five acre plot near Almora, are also being dealt with as proposed reserves.

Proposed reservation of areas.

8. Further proposals for reservation under the consideration of Government relate to the ninety square miles of Protected Forests in the Naini Tal Division, and to certain tracts, notably the Binsár and Siahi Devi forests, which it seems desirable to reserve in order to ensure a permanent supply of timber and fuel to Almora.

9. Proposals are being formulated for submission to Government in regard to the reservation of Catechu-producing tracts in the Kumaun Bhábar, with special reference to letter No. 547F., dated 13th May 1892, from the Government of India to the Local Government.

Reservation of Catechu-producing tracts in the Kumaun Bhábar.

10. The cost of forest settlement operations during the year was Rs. 3,419, as detailed in Form 47.

Cost of forest settlement operations.

11. In continuation of the information given in paragraph 6 of the Report for 1891-92, it may now be stated that the Government have approved of all the unmeasured (waste) lands of the Garhwál and Almora districts, as well as those of the hill portion of the Naini Tal District, being brought under Chapter IV of Act VII as protected forests.

Extension of the Forest Act to the unmeasured waste lands of the Garhwal and Almora Districts.

The necessary notifications and rules have been drafted and submitted by the Commissioner, and their early publication may be expected.

For the present, no action has been taken with reference to the District Forests of the Bhabar, a certain proportion of which will be embraced by the project to form Catechu Reserves.

III.—Demarcation.

12. According to the new Form No. 48, the total length of boundaries in the Circle is 2,801 miles, of which 2,412 miles have to be maintained by artificial marks.

Demarcation of boundaries.

Only three miles are returned as undemarcated and 146 miles were marked during the year under report, at a cost of Rs. 936.

Repairs were attended to over one-seventh of the entire length, and involved an expenditure of Rs. 1,292 or about Rs. 3 per mile repaired.

In the Naini Tal Division only one-twelfth of the total length of boundary was repaired, and in the Kumaun Division 13 miles out of 345 miles of existing boundaries. Nothing is said as to the condition of the boundaries not repaired, and this omission should be supplied in next year's report.

In the Garhwál Division new demarcation was limited to the marking off of a Revenue depôt, and of the Laiti village land leased to Purja (late Ranger). The permanent boundary lines and pillars are reported to have been kept in repair. New demarcation in the Ganges Division was connected with the marking off of the newly acquired Paniali and Lalpanidhar Reserves. The three miles of new demarcation required is for the corrected western limit of the Chandi Reserve. Due attention was paid to the maintenance of boundaries, their repairs being executed over 59 miles of length. In the Bundelkhand Division demarcation was completed in the Jhánsi and Bánda Districts and repairs were carried out in both Jhánsi and Lalitpur. Both the new work at a little over Rs. 6 a mile and the repairs at less than Rs. 2 a mile were cheaply done.

The work of erecting subsidiary marks between the main pillars around the protected forests of the Ránikhet Sub-Division was continued, and it only remains to complete this work for the Airadeo Forest.

IV.—Surveys.

13. The whole of the 1,704 square miles of reserves, except 138 square miles in the Bundelkhand Division, have been surveyed and mapped on the scale of four inches = one mile. As stock maps are made by the Working Plans Division, the area of 380 square miles now shown as surveyed with details of growing stock will be gradually added to. At the time of survey the general distribution of Forest growth was shown by the Forest Survey Branch; but as this detail has made way for more elaborate stock maps, only these latter have been shown in columns 2 and 3 of Form 49.

Forest Surveys.

The unsurveyed area in the Bundelkhand Division is in the Lalitpur District, which, it is understood, will come under survey and settlement in 1898.

The protected forests, with the exception of 4 square miles in the Lalitpur District, are mapped on the same scale as the reserves.

The publication of the maps has not yet been completed. One new sheet was issued during the year and several for the Naini Tal Division as well as for the Lansdowne Reserve of the Ganges Division are still wanting.

The sum of Rs. 988 was expended on bringing maps up to date in the different Divisions by the survey and entry of new fire lines, roads, &c.

The entire cost of all surveys to the end of the year, as far as can be ascertained, is shown as Rs. 1,82,411. It has been given in the main by the Superintendent of Forest Surveys, who has calculated it on an average at Rs. 115 per square mile.

CHAPTER II.—REGULATION OF MANAGEMENT.

(a)—WORKING-PLANS AND THEIR CONTROL.

(1) *Existing Plans and their Control.*

14. *The Ránikhet Working Plan*—In paragraph 14 of the Annual Progress Report for last year it was stated that this plan was in need of revision.* The control forms at the conclusion of that year showed an excess balance of 79,159 maunds against the Protected Working Circle and an excess balance of 2,999 maunds against the Reserved Working Circle. In order to reduce these amounts the Conservator arranged to bring all fuel from forests outside the Working Circles. The Local Government in their No. $\frac{300F.}{358A-1}$, dated the 21st March 1893, ruled that amounts cut on fire lines need not be deducted from the amounts prescribed by the plan The result of the above measures is that at the close of the year 1892 93 (up to the 30th June) the Control Forms show a deficit of 37,468 maunds for the Protected Working Circle and of 7,605 maunds for the Reserved Working Circle. The Conservator made a detailed inspection of the Ránikhet Forests during May, and has written a note showing clearly what the provisions of the plan are. The Divisional Officer has also drawn up a scheme for the systematic working out of the dry wood in both the Working Circles, and there should now be no difficulty in working up to the prescriptions of the plan, until the date originally fixed for its revision.

*The Ranikhet Working Plan.

15. *The Naini Tal Working Plan*—Under Selection fellings for timber, the area worked over up to date, compared with the area prescribed, shows a deficit of 4,545 acres This is due to the Gagar-Ninglat forest never having been divided into blocks, and to its not having been worked systematically. The amounts cut up to date show an excess of 1,21,348 cubic feet over the estimate of 4,000 given in the plan as the maximum to be cut per annum, but this does not concern the control prescribed by the plan, which was by area.

The Naini Tal Working Plans

The fellings for fuel have taken place in prescribed areas; much of the area prescribed for Fuel fellings in former years has not been worked; the demand for the Commissariat having been met in a great measure from clearances on fire lines, from wind falls and from the refuse of timber fellings as provided in the plan; it has been found unnecessary to work out all the areas prescribed. The system of working part of several compartments at a time several years in succession has led to a large unexploited area balance under this head in the Control books. The obviously correct method should be to take up the prescribed compartments, in the order given, and complete work in one compartment or in a group of compartments, before commencing work in another.

Under fellings for Charcoal operations have with some exceptions been conducted in accordance with the plan: some fellings started in non-prescribed areas through a misunderstanding of Appendix D were stopped, and the deviations reported to Government, and sanction applied for. Here also considerable areas prescribed for Charcoal fellings in the plan appear as unexploited in the Control Forms The reason is the same as explained above, *viz.*, that the areas set aside have not been taken up systematically, nor each one finished off before commencing work in others. In this connection it is to be noted that where the areas prescribed are at a high elevation work gets completely stopped during the winter, and it becomes necessary, if inconvenience to the station is to be avoided, to give wood at a lower elevation.

Under fellings for lime the exploitations have taken place, in the areas set aside by the plan. The amounts to which the fellings were limited by the plan have in some cases been considerably exceeded This, however, only reduces the material in the same areas available for Charcoal. This procedure has received the approval of the Inspector-General of Forests.

Works of improvement have been carried out according to the plan, and Rs 5,350 have been spent during the year against Rs. 4,000 provided. But there still remains an unexpended balance of Rs. 9,000 from previous years under this head.

It was stated last year that the Naini Tal Working Plan was in need of revision, more particularly in view of the difficulty experienced in providing fuel for the settlement of Naini Tal. This difficulty has now been met by the framing of a separate scheme, which, while not infringing the provisions of the original plan, provides for special fellings in fixed areas on purpose for the fuel supply of residents in Naini Tal. There is now no difficulty in continuing to apply the provisions of the plan until the period for which it was sanctioned shall elapse (10 years from 1886).

16. *The Nindhaur Valley Plan*.—The prescriptions of this plan as regards Sál timber were worked up to the demand for Sein and Chir, as in former years was much below the amounts available. Of the area prescribed to be brought under fire protection during the ten year period, all is now protected except 635 acres in Chini. Creeper-cutting, which had fallen heavily into arrears, was pushed on prescribed for 3,749 acres in Kalonia, all prescribed areas have now been cut over. The thinning operations and, except Dulagadh were not carried out, owing to there being no demand, and these operations are further commented on under "Thinnings"

The Nindhaur Valley Working-Plan.

17. *The Rehar Working Plan*.—During the five years for which this plan was sanctioned it was proposed to work over 1,895 acres by Strip fellings, leaving 20 to 30 standards per acre. Owing to short demand, it was found impossible to work over the areas prescribed, and 558 acres only have been worked over. During that period various changes duly sanctioned by Government have been made in applying the method of treatment, such as varying the width of the strips and the number of standards, and making experimental improvement fellings.

The Rehar Working Plan.

Under works of improvement, the prescriptions regarding fire conservancy and creeper-cutting have been fully carried out.

The permanent improvement of the boundaries of the Makonia Forest has not been arranged, as it was found impossible to come to terms with the villages concerned.

18. *The Ganges Working-Plan*.—Under this plan the following statement shows the number of trees of different species which were available for felling during the year, and the number which have been felled :—

The Ganges Working-Plan.

	Sál.	Sein.	Haldu.	Bakli	Dhaura.	Gosam.	Jaman.	Chír.	Kokát.
Number available ...	725	666	545	2,384	1,171	600	222	180	4,091
Number cut	363	507	65	158	218	6	29	...	1,035
Deficit balance to be carried forward to future years. ...	362	159	480	2,226	953	594	193	180	3,056

The reason for these short fellings is that no purchasers came forward for more trees. The demand in these forests particularly for miscellaneous species, is not at present equal to the supply available. Comparing the number of trees available according to the plan in the compartments prescribed for working with the number cut, the following discrepancies occur :—

Gwalgarh Compartment	2	Sál	available	33	Cut	44	Excess cut		11
Bidasni	„	1	Sein	„	29	„	33	„ „	4
Rawasan	„	2	Haldu	„	*nil*	„	3	„ „	3
Sukrao	„	1	Sein	„	*nil*	„	1	„ „	1
Sukrao	„	2	Sein	„	*nil*	„	3	„ „	3

Total excess cut 22 trees.

These excess fellings are owing to errors in the estimate made by the plan of the number of trees available ; various errors in this estimate were discovered in previous years, and the necessary alterations of the number of trees available were sanctioned by Government Order No. $\frac{214F.}{647}$, dated 9th March 1893. And as long as the total number of trees available under the plan is not exceeded, it is immaterial whether a greater or less number than that stated as available be taken from any particular compartment.

Under works of improvement neither the thinnings nor the improvement fellings allowed by the plan have been carried out, there having been no demand for the produce. These fellings are not prescribed but allowed if necessary, and that they have not been undertaken is not a deviation from the prescriptions of the plan.

Fire protection has been extended during the year by 8,995 acres of the areas prescribed for protection during the 10-year period for which the plan was sanctioned : the following still remain unprotected : —

Dudli Maidan	305 acres.
Sígaddi compartments, 10, 11, 12 and 16	7,120 „
Total	7,425

Dudli Maidan should have been protected by the end of 1890-91, which has not been done.

Creeper-cutting has fallen greatly into arrears ; the plan lays down that the areas in which Selection fellings are undertaken should at the same time have creepers cut over them, and this has not been done.

The measurements of Sál have been taken in only one sample plot, instead of two as prescribed.

The plan prescribes that the the temporary *chaukis* should be replaced by a better class of huts. Ranger's quarters have been constructed at Chila, but no further steps have been taken in this direction.

The Palain Kohtri Working-Plan.

19.—*Palain Kohtri Working-Plan. Selection Fellings.*—The compartments prescribed have been worked in, but the number of trees available were not nearly all disposed of, thus.

Sál trees available	573	cut	217	short cut	356
Sein „ „	433	„	6	„ „	427

This is owing to there being no further demand. The Selection fellings allowed for Bakli, Haldu and Sandan have not been carried out, no demand for these species having arisen.

Improvement fellings.—The areas prescribed for these fellings have not been worked over with the exception of Kunsur compartments 3 and 5. The reason that these improvement fellings have not been carried out is that the demand for such produce as would result from the fellings is fully met from dry trees over the whole area of the Working Circle, and also the system inforce being that purchasers cut and remove their own timber, and that consequently no tree is cut unless by a purchaser who wants it. The only way by which necessary improvement fellings can be carried out as prescribed is by departmental agency.

Works of Improvement.—The areas to which fire conservancy was to be extended during the five-year period for which the plan was sanctioned are now all under fire protection.

The road work prescribed has fallen into arrears and 39 miles of paths remain to be constructed during the ensuing working season

Building work has also fallen into arrear and the following remains to be completed next working season :—

Forest guards' houses at Tumeria, Halduwala, Bijorghát, Kohtri, Dhimki, Barkhet, Chaukhamb and near Laldarwaza.

Creeper-cutting.—The areas prescribed have all been cut over except Mandalti compartments 7 and 8.

Bamboo Working Scheme, Ganges Division.

20. *Bamboo Working Scheme for the Ganges Division.*—This has superseded the provisions regarding bamboos in the Ganges and Palain-Kohtri Kohtri Working Plans under Government sanction. The provisions of the scheme have been worked up to.

(2). New Working-Plans.

The Lansdowne Working-Plan.

21. *The Lansdowne Working-Plan.*—This plan was completed in June 1892, but has not been formally sanctioned. In the meantime the forests are being worked according to the prescriptions of the plan.

Plan for the Kumaun Division.

22. *Plan for the Kumaun Division.*—As reported last year the examination of the forests of the Kumaun Division was commenced in 1891-92 with the view of revising the Nindhaur Working-Plan, and of framing a new plan in which all the forests in the Division should be dealt with. At the conclusion of the season of 1891-92 an area of 82,160 acres had been examined and stock maps prepared. The Working-Plan Branch commencing work in November continued and completed this examination: 73,600 acres were thus examined and maps prepared. Whilst the remaining area of the Division being known to be unworkable has been described. An outline plan as required by the Forest Department Code was drawn up and submitted to the Inspector-General of Forests for his opinion. He suggested certain changes involving enumeration surveys, which, owing to the lateness of the season and consequent scarcity of labour, could not be immediately carried out. The Kumaun Division Plan is now being worked out, and nothing remains but to conduct enumeration surveys over some 28,000 acres. This plan will be completed during the ensuing working season

Rehar Garhibulchand.

23. *Rehar Garhibulchand Plan.*—The five years for which the Rehar plan was sanctioned having elapsed, and the method of treatment applied (coppice with standards) having been recognized as unsuitable, steps were taken to make a new plan for Rehar and the adjoining and similar forest of Garhibulchand, the forests of Kilauli and Makonia, the property of the Tarái, being also included. These forests (a total area of 39,615 acres) have been examined and described, and stock maps made for them. The plan is now practically completed and will be shortly submitted for sanction.

24. *Plan for the Garhwál Division.*—The work of examination of the forests of this Division was commenced and stock maps prepared for some 10,000 acres. This work will be continued during the ensuing working season, and a plan embracing the whole Division drawn up.

Garhwál Division Plan.

25. *In the Naini Tal Division.*—A good deal of information has been collected by the Divisional Officer for the Dolmar-Mora Forests which are not included in the Naini Tal plan.

Clolection of data for Dolmar-Mora Forests.

26. The expenditure on the collection of information for Working-Plans and their preparation, inclusive of the salary, &c., of officers employed on the work, has been, for the 15 months under report, Rs. 9,588.

Expenditure on Working-Plans during the year.

(3).—Collection of Statistics.

27. The measurements taken over sample plots set apart for the observation of the growth of Sál, since their utility is brought out in the preparation of Working-Plans, may appropriately be dealt with under this chapter. In Appendix A will be found the usual record of girth increment ascertained for the year. The average increase in girth per tree per annum has usually been arrived at from the sum of the ascertained annual increments, but this year in the Kumaun and Garhwál Divisions this has been also calculated from the original measurements made in the first year of observation and those now made, and this is obviously more correct. In future years this result will be shown only, and the totals of yearly increments, which necessarily cannot be measured with absolute accuracy, disregarded.

Measurements in sample plots.

The statement also contains the mean annual increment in sectional areas in square feet per acre worked out and submitted specially to Government in justification and explanation of the conclusions reported in para. 43 of last year's report, remarked upon in para 23 of the Government Resolution on that report.

The statement made that the unthinned areas are producing more wood than the thinned areas can only be completely substantiated by height measurements, which are not available, and the use of form factors by which the cubic contents of the trees can be obtained. But Mr. Wild's conculsions are probably correct enough.

In the first place; the sample plots being irregularly and incompletely stocked with trees of considerable difference in size and age, they are unsuited for experiment in the comparative advantages of thinnings of varying heaviness. In illustration of this Lakhmanmandi, after being somewhat regularised by a thinning, contains trees varying from 1 1″ to 5′ 7″ in girth, while the unthinned area has trees from 9 inches to 5′ 5″. In Dikhala the thinned area has saplings of 7″ or 8″ and trees of 3 feet in girth.

Secondly, the thinnings have been so heavy as to isolate the trees, and practically to remove that condition of completeness which alone is compatible with the maximum production of wood per acre, *e g.*, Lakhmanmandi has been thinned down to 57 stems and Dikhala to 78 stems per acre.

Thirdly, the irregular disposal of the crop results in many instances in trees being so placed in the unthinned areas as to be growing under the best of conditions without any thinning.

Under these circumstances it may readily happen that although the individual trees in the thinned areas are growing more rapidly than all but an exceptional few in the unthinned areas, the wood production per acre is greater in the latter. This, however, is by no means conclusive proof that thinnings should not be had recourse to. The object in view when they were made was not so much to increase the production per acre as to concentrate the greatest growth on the most promising stems.

The sample plots fully justify the object for which they were set apart in furnishing trustworthy data of the growth of Sál under different conditions, and these data are being utilised in the Working-Plans now under preparation.

Thus in Lakhmanmandi it is found that 57 trees to the acre of an average girth of 2′ 10″ increase in girth at the average rate of ·77 inches a year, while in similar forest 130 trees with a somewhat less average girth increase in girth at the rate of ·30 inches a year. The dominant stems of these 130, however, show an increase of ·47, and these are the trees of the future crop which it is important to consider.

Similarly the average of five different plots gives ·695″ for the annual girth increase of trees in thinned areas, ·329″ for that of all trees in unthinned, and ·480″ for that of only dominant trees in the latter.

In Dikhala, on the other hand, where the trees are much younger, averaging 1′ 8″ in girth, the average girth increase in the thinned area is 1·13″, and over all stems in the unthinned area ·490″, and over the dominant stems ·781″.

The above goes to show that 3rd-class trees of 3′ in girth will attain 4′ 6″ under favourable conditions in a period varying from 26 to 37 years.

That 4th-class trees of 1′ 6″ in girth will become 3rd-class in 16 to 23 years under exceptionally favourable circumstances.

This is the information the plots were intended to furnish, and its application in determining the exploitable age of a forest, or in prescribing the thinnings to be carried out, must be carefully considered in connection with the important matter of maintaining the forest in that state of completeness under which alone the best material in the greatest quantity is produced.

(b).—*Annual Plans of Operations.*

Annual Plans of Operations.

28. Annual Plans of Operations were drawn up for all Divisions in accordance with the Forest Department Code, and submitted with the Budgets

They were fairly well worked up to, and as the list of unexecuted works is recorded for the different Divisions in an Appendix (C), and the explanation for their not being carried out is given in that statement, no special remarks seem called for in the body of the report.

II.—Working of the year.

(a).—*Communications and Buildings.*

Communications and Buildings

29. The new From No. 51 gives in very complete detail the works carried out in each Division under this mainhead of expenditure. Rs. 18,082 were expended on new work, Rs. 6,191 on roads and Rs. 11,891 on buildings. Repairs to buildings cost Rs. 8,708, and Rs. 28,444 represent the outlay on the maintenance of roads.

The expenditure on new roads was Rs. 5,485 less than in the previous year and less than in 1890-91 by more than Rs. 1,000. The reduction was due to the Airadeo cart road being completed, and no correspondingly expensive work being undertaken. The maintenance of existing roads involved an expenditure in excess of previous years by some Rs. 3,000. The additional outlay occurred in the Kumaun Division, where payments which it has been customary to defer till after the close of the financial year came to be included in the forest year now under report.

In the Ganges and Bundelkhand Divisions there were economies of a few hundred rupees, which covered the additional work carried out during the months April-June in the Naini Tal Division.

A reference to Form No. 51 will show that throughout the Circle 104 miles of new roads and paths were laid out during the year, and that no less than 2,065 miles were repaired and maintained.

The expenditure on new buildings was some Rs. 2,300 more than in either of the previous two years. The excess occurred partly in the Naini Tal Division, where, in addition to the building of a house at Kolona involving an outlay in part payment of Rs. 1,000, the house belonging to the Naini Tal Brewery Company at the abandoned Brewery at Seóni was acquired for Rs. 1,200 and put into repair for a trifling sum.

The repairs and improvement of existing buildings cost Rs. 2,499 more than in 1891-92, in consequence of enlargements of the Naini Tal Divisional Office and the Dalmoti rest-house in the Ránikhet Reserve, the reroofing of the house and Rangers' quarters at Dechauri in the Kumaun Division, and more than usually extensive repairs and improvements to buildings in the Garhwál Division.

More attention is now being paid to the need for suitable houses for Rangers and subordinates, and standard plans have been worked out by Colonel Campbell, Deputy Conservator, in charge of the Garhwál Division, for Rangers' quarters in the hills, as well as in the malarious tracts at their foot, and these have been printed for general adoption in all Divisions, and for distribution to the Conservators of other Circles.

Outlay on roads and buildings.

30. The total figures for the year compare with the outlay on roads and buildings in the two previous years as follows:—

Year.	New work.		Repairs and improvements.		Total.
	Roads.	Buildings.	Roads.	Buildings.	
	Rs.	Rs.	Rs.	Rs.	
1890-91	7,520	9,520	22,153	4,575	43,768
1891-92	11,676	9,610	25,598	6,209	53,093
1892-93	6,191	11,891	28,441	8,708	55,234

Other works.

31. Under "other works," which involved a total outlay of Rs. 2,781, the chief were three wells made in the Kumaun Division, and one in the Garhibulchand forest of the Garhwal Division. The usual camping grounds were cleared and maintained.

List of buildings.

32. The following statement shows the buildings and forest inspection houses in the Circle at the close of the year:—

Division.	Rest-houses for controlling staff.	Quarters for subordinates (excluding revenue depôts.)	Offices, stores, and revenue depôts.	Wells.	Total.
Direction	...	...	1	...	1
Naini Tal	9	22	9	...	40
Kumaun	13	8	26	7	54
Garhwál	16	43	15	9	83
Ganges	13	3	7	3	26
Bundelkhand	5	35	2	1	43
Total ...	56	111	60	20	247

In appendix B will be found a complete list of all buildings the cost of which exceeds Rs. 200.

(b).—Protection of forests from injury.

(1). General Protection and Breaches of the Forest Law.

Prosecutions during the year.

33. There was a very marked improvement in the success with which prosecutions were conducted during the year under review for, whereas in 1891-92 the prosecution in 43* cases of 183 persons resulted in the punishment of 43, in 1892-93, over a period of fifteen months, 62 cases were taken into Court, involving 127 persons, and convictions were obtained in 53 or 85 per cent. of those cases and led to the punishment of 103 people. The nine acquittals occurred, three out of 25 prosecutions in the Naini Tal Division, and six out of 32 prosecutions in the Bundelkhand Division. The unsuccessful cases in the Naini Tal Division all related to injury to forest by fires in May 1892; and they were tried by the Deputy Conservator, in the exercise of his magisterial powers. A perusal of the evidence and judgments has satisfied the Conservator that they were rightly undertaken and disposed of. It is reported that five of the six unsuccessful prosecutions in Bundelkhand were instituted at the instance of police chaukidárs, without reference to the Forest Officer.

From the above remarks it will be seen that the orders of Government contained in paragraph 13 of the Resolution on last year's report have been carefully observed.

Cases taken into Court.

34. The offences which necessitated appeal being made to the Courts are classified and compared with those of 1891-92 as follows :—

Year.	Injury to forest by fire.	Unauthorized fellings or appropriation.	Grazing without permission.	Other offences.	Total.
1891-92	12	20	1	3	36
1892-93	11	46	4	1	62
Difference ...	—1	+26	+3	—2	+26

* Inclusive of seven pending from the previous year.

The increase of 26 cases is accounted for chiefly by a larger number of the offences committed in the Ránikhet Reserve being referred to the Assistant Commissioner for disposal, instead of being compounded; and by the increase in offences detected in the Bundelkhand Division, where the total of cases prosecuted and compounded rose from 43 and 33 in the past two years to 126 in the fifteen months under report. In the latter Division closer supervision, consequent on the appointment of a Divisional Forest Officer, led to the detection of many petty cases.

Cases compounded.

35. The number of cases compounded under section 67 of Act VII was 654, involving 1,009 persons, and the total compensation received amounted to Rs. 2,453, or, on an average, of Rs. 3-12 for each case, and for each person, of Rs. 2-6-10. Compared with the previous year the results in the different Divisions for the fifteen months were as follows :—

Divisions.		1891-92.		1892-93.		Average for each person.
		No. of offences.	Average amount taken from each person.	No. of offences.	Total amount received.	
			Rs. a. p.		Rs.	Rs. a. p.
Naini Tal ...	Naini Tal Sub-Division ...	245	1 1 8	268	694	1 6 6
	Ránikhet District ...	85		86		
	Kumaun ...	47	3 7 3	50	555	6 0 6
	Garhwál ...	55	2 7 3	69	415	3 1 2
	Ganges ...	96	5 5 2	87	592	5 1 9
	Bundelkhand ...	18	2 3 1	94	197	1 2 3

Average compensation for the Circle, Rs. 2-6-10.

In the above table the average compensation from each person, and not in each case, is compared, as the latter would seem to give no basis either for comparison or for reference to the limit fixed by the Act.

(2) —PROTECTION FROM FIRE.

Protection from Fire.

36. The exceptionally favourable conditions of the past season made fire conservancy operations for the most part more than usually successful. The area over which protection was extended as compared with last year has increased from 7,02,880 acres to 7,23,011 acres; and the failures have diminished from 21,241 acres to 7,891 acres, the whole of which, save 48 acres, occurred in the Bundelkhand Division.

Results of the year

37. The following customary statements are abstracted from Form No. 53 for the Circle and compare the results of the season under report for each class of forest, and the cost of protection, with figures for the preceding year, and further distribute the figures by Divisions.

Nature of protection	Area over which protection was attempted.						Failures.						Area actually protected.						Cost of the operations of the year.		Cost.				Percentage of the area attempted to total area of reserves and protected forests.		Percentage of failures to the total area attempted.	
	Reserves.		Protected Forests.		Total.		Reserves.		Protected Forests.		Total.		Reserves.		Protected Forests.		Total.				Per acre attempted.		Per acre protected					
	1892.	1893.	1892.	1893.	1892.	1893.	1892.	1893.	1892.	1893.	1892.	1893.	1892.	1893.	1892.	1893.	1892.	1893.	1892.	1893.	1892	1893	1892	1893	1892.	1893.	1892	1893
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Rs.	Rs.	Pies.	Pies.	Pies.	Pies.				
By means of a regular system of fire lines and watchers.	5,24,711	5,62,411	54,039	55,612	5,78,750	6,18,023	12,191	4,251	5,072	...	17,263	4,251	5,12,520	5,58,160	48,967	55,612	5,61,487	6,13,772	23,608	20,334	7·83	6·32	8·07	6·30	49·52	53·70	2·98	0·68
By the ordinary establishment under administrative orders and with the aid of the villagers or trifling expenditure on watchers, &c.	1,23,984	1,04,845	146	146	1,24,130	1,04,991	3,978	3,640	...	...	3,978	3,640	1,20,006	1,01,205	146	146	1,20,152	1,01,351	...	...	...	...	...	...	10·62	9·12	3·20	3·47
Total ...	6,48,695	6,67,256	54,185	55,758	7,02,880	7,23,014	16,169	7,891	5,072	...	21,241	7,891	6,32,526	6,59,365	49,113	55,758	6,81,639	7,15,123	23,608	20,334	6·45	5·40	6·65	5·45	60·14	62·82	3·02	1·09

Divisions.	Area attempted.				Area protected.				Failures.				Cost.		Cost per acre attempted, in pies.	
	Acres.		Percentage of total area of reserves and protected forests of each Division.		Acres.		Percentage of area attempted.		Acres.		Percentage of area attempted.					
	1892.	1893.	1892.	1893.	1892.	1893.	1892.	1893.	1892.	1893.	1892.	1893.	1892.	1893.	1892.	1893.
													Rs.	Rs.		
Naini Tal	90,577	88,447	94·09	95·07	84,517	88,439	93·31	100·00	6,060	8	6·69	...	2,381	1,097	5·05	2.38
Kumaun	1,44,094	1,52,629	47·65	50·30	1,37,725	1,52,629	95·58	100·00	6,369	...	4·42	...	6,549	5,766	8·73	7·25
Garhwál	1,81,709	1,86,703	57·80	62·00	1,78,953	1,86,703	98·48	100·00	2,756	...	1·52	...	9,117	8,232	9·63	8·46
Ganges	1,08,631	1,18,522	39·09	42·86	1,08,631	1,18,482	100·00	99·97	...	40	...	0·03	4,424	3,809	7·82	6·17
Bundelkhand	1,77,869	1,76,713	100·00	100·00	1,71,813	1,68,870	96·60	95·56	6,056	7,843	3·40	4·44	1,137	1,430	1·23	1·55
Total	7,02,880	7,23,014	60·14	62·82	6,81,639	7,15,123	96·98	98·91	21,241	7,891	3·02	1·09	23,608	20,334	6·45	5·40

The percentage of forests the potection of which was attempted has risen from 60·14 to 62·82 of the total area of the reserved and protected forests. Under special measures, from 49 52 to 53·70. Under ordinary protection by the regular establishment the percentage has decreased from 10·62 to 9·12, the decrease occurring in the Bundelkhand Division, where a portion of the forests hitherto "ordinarily protected" has been transferred to the "specially protected" class. The additions to areas brought under protection are in the Kumaun, Garhwál and Ganges Divisions; while the Naini Tal and Bundelkhand Divisions have practically remained stationary.

The failures amounting to 7,891 acres as compared with 21,241 last year represent losses from the total area attempted of 1·09 per cent. against 3·02 last year. With the exception of the Bundelkhand Division the forests have been practically free from fires, which is without precedent.

The total expenditure decreased from Rs. 23,608 in 1891-92 to 20,334 in the year under report. This decrease coupled with an increase in area protected is, however, due in the main to the favourable weather conditions which prevailed throughout the season. The average cost in pies per acre attempted and protected fell from 6·45 and 6·65, respectively, to 5·40 and 5·45 respectively. The cost was highest in Garhwál, averaging 8·46 pies per acre, and lowest in Bundelkhand, where it was 1·55 pies. The conditions of the forests in these Divisions are, however, totally dissimilar. The cost in the Hill Forests of the Naini Tal Division was 2·38 pies per acre, whilst that in the other two Submontane Divisions, Kumaun and Ganges, was 7·25 and 6·17 pies respectively. Except in the Bundelkhand Division, where the cost has risen by ·32 pies per acre, the cost has fallen appreciably in every other Division.

Details of failures.

38. The following are the details of the failures by Divisions:—

Naini Tal. Only one fire of 8 acres occurred—cause unknown. It was promptly extinguished by soldiers, whom the Officer Commanding at the standing camp turned out for the purpose.

Kumaun. No forest fires whatever occurred throughout the year. The result of the enquiry into the burning of 4,000 acres in 1891-92, and the punishment inflicted on the establishment for their negligence, were duly reported to Government, in accordance with the orders contained in paragraph 15 of Government Resolution reviewing the last Annual Report.

Ganges. There were three fires over an aggregate area of 40 acres The first, burning 25 acres, occurred on the 3rd December 1892, and originated from burning the fire line. No damage except to grass was, however, done, the ground being rocky, precipitous hillside. The second fire occurred on the 8th March, 1893, and burnt 7 acres. No damage was done except to grass, and the Divisional Officer is of opinion that this fire, too, spread from line burning. The third and last fire of 8 acres took place on the 21st April, 1893, the cause remaining undiscovered.

Bundelkhand. There were 24 fires (of which 4 covered less than 5 acres) which burnt an area of 7,843 acres.

Classification of fires.

39. The following statement gives an abstract of the above information:—

Year.	By the Forest establishment when burning fire lines.		Fires which entered the forest by crossing exterior fire lines.		By workmen (not in forest employ) by accident.		By villagers, travellers, or soldiers by accident.		Fires caused by lightning or fire balloons.		Maliciously lighted inside the forest.		Cause unknown.		Total.	
	No.	Area in acres.	No.	Area in acres.	No.	Area in acres.	No.	Area in acres	No.	Area in acres.	No.	Area in acres.	No.	Area in acres.	No.	Area in acres.
1889 ...	2	980	5	746	...	...	7	787	..	...	1	14	5	70	20	2,597
1890 ...	5	84	12	11,075	1	12,502	9	1,837	1	2,968	1	663	10	2,289	39	31,418
1891	3	341	11	5,856	4	2,062	5	1,026		...	2	3,054	11	1,832	36	14,171
1892 ..	2	4,013	17	3,331	10	1,414	12	3,386	2	1,210	7	4,415	28	3,472	78	21,241
1893 ...	4	251	16	5,899	...	...	2	1,563	...	...	...	...	6	178	28	7,891

Rules for firing private forests.

40. In the Bundelkhand Division most of the fires occurred through the non-observance by zamíndárs and the adjoining Native States of Punna, Charkari, Rewah, Pathar and Kachar of the rules for regulating fires in the proximity of Government Forests published in G. O. No. $\frac{349F.}{825-66}$, dated 2nd May 1891. But the zamíndárs have been again warned and the influence of the Agent to Government for these Native States has been invoked, and better results may reasonably be expected in the future. These rules were observed in several instances in the Naini Tal Division, but they appear to have been ignored in the Kumaun Division both by the staff and the people. The Deputy Conservator of Garhwál reports that since the people of the neighbourhood have come to know the rules, they have worked well. From the Ganges Division it is reported that they have remained a dead letter, their further free distribution notwithstanding.

On the whole, it is believed that the rules are suitable, and that their enforcement will be beneficial.

System of fire lines in the Naini Tal Division.

41. The system of broad (100 feet) fire lines introduced within recent years in the Pinus longifolia forests of the Naini Tal Division is for several reasons objectionable. The lines follow the tops of the highest ridges, and therefore remove that valuable protective belt of wind-proof trees which, from a sylvicultural point of view, it is so desirable to retain. Advancing fires are, it is generally considered, more easily checked in the sheltered valleys than on the exposed hill tops, and it is questionable whether in practice, owing to the distance to which the falling needles are carried, broad cleared lines are as effective as narrow paths, which can be kept more free from inflammable matter. No extension of these broad lines will be undertaken until it is established by experience that their fire protective value justifies the sacrifice involved in the clearance of exposed ridges.

(3).—Regulation of Grazing and Protection from Cattle.

Regulation of grazing.

42. The new prescribed Form No. 54 gives, with somewhat less of detail, the information hitherto recorded in appendix B regarding the areas closed and open to grazing.

Details for Reserved Forest.

43. Of the *Reserved Forests* 497 square miles or 29 per cent. of the total area were open to all animals; but from this it must not be understood that this large area was eaten down by browsers, for a total of 267 camels were admitted at different times on the march only, and on payment. The 29,215 sheep and goats admitted at privileged rates represent the passing herds of the Bhutias, who march through the forests. The advisability of admitting so many as 16,392 goats and sheep on payment is open to question, and special enquiry will be made as to the numbers of each kind, and the matter further reported upon next year.

By right 10,849 sheep and goats were provided for, and 503 were admitted free under temporary concessions made by Government.

Something less than half the total area was open to cattle for the whole year, and a further area of 248 square miles was open for part of the year: or, in other words, 40 per cent. was closed to all animals for the entire year, and an additional area of 15 per cent. for part of the year.

In all, 35,626 buffaloes and 1,75,912 heads of cattle grazed over 1,009 square miles, or one head over three acres, while 3,20,000 acres of the same area had also to provide for the pasture of 27,744 local sheep and goats, as well as 29,215 belonging to herds on the march. In round numbers, 6 acres of this area were grazed over by one sheep or goat, as well as by two cows or buffaloes.

This goes to show that, if the grazing were evenly distributed over the open areas, it would not be excessive.

Details for Protected Forests.

44. Of the *Protected Forests*, 5 square miles are closed in the Naini Tal Division to all animals for the whole year, and the open 85 square miles provide for 28,569 cows and buffaloes, and 5,706 sheep and goats, belonging to rightholders; 1,346 cows and buffaloes, and 2,645 sheep and goats at privileged rates; 864 cows and buffaloes and 485 sheep and goats at full rates. These make a total of 30,779 horned cattle, and 8,836 sheep and goats, and are equivalent to one of the former to 1¾ acres, and to one of the latter to six acres. The Protected Forests in Bundelkhand are closed to browsers only, and they provide for 11,548 horned cattle, and 4,598 sheep and goats, admitted during the pleasure of Government, which represents one cow to two acres, and one sheep or goat to five acres.

Details for Unclassed Forests.

45. The *Unclassed Forests* of Bundelkhand of 32 square miles are open to all animals for the whole year, but are not taken advantage of for browsers. 1,260 cows and buffaloes graze in them at full rates, and 1,111 head of cattle, by privilege, free.

Fencing of closed areas in the Naini Tal Division.

46. The only closed areas fenced are the five square miles of the Protected Forests in the Naini Tal Division. The fencing consists of one or two strands of barbed wire, and is effective in unmistakably marking the areas, and trespass is uncommon.

(c). *Improvement of Forest growth.*

(1).—Natural Reproduction.

Natural Reproduction.

47. Regarding the hill forests the Deputy Conservator of the Naini Tal Division reports as follows :—

> "It has been a good seed year for oak. The Conservator considers that the young growth of "chír in many parts (especially of the Ránikhet Sub-Division) upon which we were "priding ourselves is really stunted and unpromising, and that the bulk of it has scarcely "made way for many years, though possibly some has with difficulty now escaped from "the damage done to it in early times. Oak, Rhododendron, Ayar (Pieris) and Kaphal "(Mysica Sapida) are spreading well in among the chír, where they will eventually "doubtless fill up the spaces which are practically always to be found in chír forest, and "at the same time will, in addition to thus increasing the amount of material per acre, "render the ground cooler and make fire conservancy much easier."

The open and most incomplete condition of many of these forests can scarcely be held to bear out the satisfactory remarks on natural reproduction which have appeared in the progress reports of past years, and the opinion is hazarded that the officers reporting have not fully understood the absence of that power in the young Pinus longifolia, which failing is common to all light-loving species, to recover and gain vigorous health after undergoing years of suppression or injury. This want of appreciation of the sylvicultural requirements of the chír has in places led to heavy fellings over an advance growth which has but little promise, and where it might have been better to have rooted up the existing young growth and waited for the establishment of a new crop. The broad leaved species are spreading without doubt, but it seems evident that the regeneration and complete stocking of the closed areas would be very much expedited by the removal of the stunted young chír, and by the dibbling in of acorns on a large scale. The oaks seed with regularity and the cost of dibbling in is little more than a rupee an acre. Pinus longifolia seeds more rarely, and advantage might be taken of good seed years to prepare the soil in patches in blank places. With so much aid given to natural reproduction, these forests might be gradually converted from the open grass growing lands, too many of the compartments now are, into dense mixed forests of chír and oak.

48. The Sál tree has not borne seed in quantity for several years, but the excellent young growth of this tree is everywhere remarkable in the forests protected from fire, except in places where it is cut down by frost, or the conditions of the soil are unsuited to its growth. Its gradual spread over such unfavourable sites must be slow, and dependent on the protection and aid afforded by the growth of inferior species. No measures other than protective seem called for to aid its reproduction.

Reproduction of the Sál tree.

49. In the Bundelkhand Division the remarks made in last year's report hold good, and it is further reported that in certain forests the reproduction of teak and of Anogeissus Pendula is making headway.

Reproduction in the Bundelkhand Division.

(2).—ARTIFICIAL REPRODUCTION.

50. There are, strictly speaking, no regular plantations in the Circle, but it has been usual to show the Ránikhet orchard and nursery under this head. Government was induced on the ground that this useful fruit garden was not selfsupporting to sanction its being leased, but fortunately no suitable tenant was found. Since the services of a specially paid Superintendent have been dispensed with, and the entire season's fruit has been sold to a middleman for a lump sum, instead of auctioned in small lots or retailed departmentally, the financial position has altogether changed.

The Ránikhet Orchard.

For the 15 months under report the account stands as follows :—

Receipts.	Rs	*Expenditure.*	
By sale of fruits	1,174	List of permanent Establishment ...	732
" " grafts	477	Daily labour and Miscellaneous	1,398
" " forest plants	1	Total ...	2,130
	1,652		
Deficit ...	478		

There were Rs. 800 still outstanding on account of the fruit crop for 1893, which realized Rs. 1,200 as against Rs. 774 in 1892 and Rs. 598 in 1891 · and therefore the amount credited for fruit, although it includes the value of the 1892 crop plus ⅓rd of that of 1893, is still within the sale-price of a single year.

As a set off against the deficit of Rs. 478, 9,501 grafted fruit trees, of an estimated value of Rs. 1,781, were distributed gratis to public Boards and Committees, and beds of Deodar, Cypress and other plants were raised for use in the Ranikhet Reserve. On the whole, therefore, the garden can scarcely be said to be maintained at a loss.

Cherries, except morellas, almost failed, and there were very few peaches, but the crop of apples and apricots was abundant.

51. Under cultural operations, which cost exclusive of nurseries only Rs. 101, there is little to record.

In the Naini Tal Division the correct view expressed in the Annual Report of 1890-91, "that more attention should be paid to afforesting the barer slopes with the native growth of chír," seems to have been lost sight of, and the planting out of exotics singly here and there in blanks over an extensive area was continued. Plants put out in this way cannot be properly tended from year to year, and a very small proportion eventually succeed in establishing themselves.

Cultural operations in the Naini Tal Division.

Sowings of oak (*Quercus incana*) were carried out towards the close of the year over 61 acres, at a cost of 69 rupees, and these, with the chír sowings above referred to, should be conducted whenever seed is procurable, on a considerable scale, and make up the main cultural operations.

The planting out of Deodars or Cypress should be limited to suitable localities, and done within definite areas, so that the needful weeding and care can be assured to the plants for a series of years.

52 No cultural operations are reported in the Kumaun, Ganges or Garhwál Divisions The up keep of gardens and mango groves in these Divisions cost, respectively, 321, 274 and 89 rupees, and their acreage has been struck off Form No 56.

Cultural operations in the other Divisions.

53 The failure of cultural operations in the Bundelkhand Division was specially reported upon by Mr Bagshawe with reference to para 21 of the Government Resolution on last year's report It seems that the areas written off and stated to contain no plants, were not actually failures Mr Bagshawe estimated that half the area might be held to be stocked He found that the young teak which, up to 1889, he had noticed were annually cut down by frost, had in consequence of the absence of frost in 1891 put on two years' growth, and thus attained such a height as to be probably out of danger The areas have not again been brought on Form No 56, as no further expenditure is contemplated on them, and they may be considered parts of the reserves No new areas were dealt with during the year.

Cultural operations in the Bundelkhand Division

Nurseries at Maulani and Seoni

54. Nurseries at Maulani and Seoni in the Naini Tal Division cost Rs. 92.

(3).—EARLY THINNINGS.

Early Thinnings.

55. These may be sub-divided into (*a*) weedings, (*b*) thinnings, and (*c*) cutting of creepers.

(*a*).—*Weedings.*

Weedings.

56. These operations, so necessary where single plants are put out casually as in the Naini Tal Division, have hitherto been neglected, or badly done, with the result that many of the plants of previous years' must have been killed off, and large numbers have now been found injured by long suppression.

(*b*).—*Thinnings.*

Thinnings in the Nindhaur Working Circle

57. The only regular thinnings are those prescribed in the Nindhaur Working-Plan over 154 acres a year for the ten years 1886 to 1895, and these have not been made.

In 1886-87 a commencement was made in compartment 36 over 116 acres, but no definite portion of the compartment seems to have been gone over. Nothing more was done till 1891-92, when 3 compartments comprising 116 acres were taken in hand and partially thinned. The same area was again gone over during the past year. This is not satisfactory and is due to purchasers not coming forward to extract such produce as the thinnings yield.

Arrangements will be made to have the thinnings carried out by Departmental agency, and the prescriptions of the Working Plan gradually worked up to.

(*c*).—*Cutting of Creepers.*

Creeper-cutting

58. The following tabulated information shows the good work done during the year in the submontane divisions in suppressing the growth of creepers:—

Division.	Areas	Acres	Cost	
			Total	Per acre
			Rs	Pies
Kumaun ..	Chini . .	3,820	474	5
	Kalonia	9,835		
	Nindhaur	4 013		
Garhwal ..	Kelam, compartments 17 18, 19 and 29	1,560	97	13
	Block II, compartments 22 and 24	595	28	
	Mandal	1,262	59	
	South Patli Dún ...	1,575	98	
	Melani ...	1,200	112	
	Rehai, compartment I	968	91	
	Ditto ditto J .. .	905	71	
	Ditto ditto C ..	1,282	60	
	Ditto ditto D . ..	823	39	
	Kota, compartment 17	1,297	142	
	Sadania	1,057	83	
	Ditto . . .	760	47	

Division.	Areas	Acres	Cost	
			Total.	Per acre
			Rs	Pies
Ganges ...	Kunaun compartment 1; Bidasni compartments 1, 2 and 5, Audhermajera compartments 1 and 2.	5,468	1,541	15
	Rawasan compartments 1, 2, 6 and 7, Gwalgarh compartments 1, 2 and 3	4,940		
	Dabina compartments 1 to 3, 5 to 15 and 46 to 48; North Kohtri compartments 5, 6 and 7; South Kohtri compartments 4, 5, 22 and 23	7,108		
	Kansúr compartments 4, 17 and 19; Mandalti compartments 1, 2, 3, 9 and 21	2,667		
	Total	51,135	2,942	

Creeper-cutting in the Kumaun Division

59. The area dealt with and the low cost of the work are creditable to the Kumaun Divisional Officer, but the cheapness may be assumed to be in a measure due to the forests not being badly invaded by creepers

Creeper-cutting in the Garhwal Division

60 In the Garhwál Division, 13,281 acres were cleared of creepers at the reasonable rate of 13 pies an acre.

Creeper-cutting in the Ganges Division

61. Exceptional energy was shown in the Ganges Division, where more than 20,000 acres were gone over at the cost of 15 pies an acre, as compared with 20 pies in the previous year Assuming that the work was thoroughly done, this rate is not excessive

Creeper-cutting in the Bundelkhand Division

62 In the Bundelkhand Division teak trees were freed of creepers and other inferior dominant growth over an area of 100 acres, at a cost of 10 annas and 4 pies an acre.

(4).—EXPERIMENTS.

Experimental sowings

63. The experimental sowing of Robinia Pseudo Acacia over 41 acres in the Naini Tal Division with seeds imported from Europe was a complete failure. The plants of this species previously reported as put out in the Dwarson Forest are doing well, and others have been raised in a nursery from seed kindly sent by the Conservator of the Punjab.

Some Australian Acacia (A. decurrens) have also been grown in nurseries, and others put out in the Rámkhet Reserve.

The 100 seedlings of the Arabian date-palm sent from Saháranpur to the Bundelkhand Division were planted out in August 1892, and 50 offsets from the Persian Gulf were put out in January 1893. On the 30th of June 85 of the seedlings were growing vigorously, but the offshoots had not established themselves. They were being carefully tended and may be expected to develope during the current rainy season.

Experiments with Bamboos in the Bundelkhand Division.

64. In the Bundelkhand Division some clumps of bamboos were cleared of all but the shoots of the year, and placed under observation to determine the number and growth of the annual shoots.

Experiments in manufacture of Cutch.

65. In continuation of the remarks contained in paragraph 44 of last year's Annual Progress Report, further experiments in the manufacture of Cutch were made in the Kumaun Division, but they were on too small a scale and not conducted with sufficient care to be of any use

Regarding the indications contained in the Report for 1891-92, it may be stated that a cubic foot of Khair heart wood is known to yield up to four and even five lbs.

of Katha, from experiments conducted by Doctor Warth, and from others reported from Burma; and that therefore experiments which result in an outturn of about one lb. per cubic foot of wood are worthless in determining the precise differences, which may show the comparative yield of trees of different sizes.

(d).—Exploitation of Major Forest produce.

Selection fellings.

66. (1). Selection fellings are not in all cases properly distinguished from Improvement fellings, where the latter necessitate the removal of mature trees. They are the fellings made in a forest treated by the selection (or *Jardinage*) method, and are practised in certain forests of the Naini Tal Division, and in the Sál forests. They are also reported from Bundelkhand, but these would probably be more appropriately termed Improvement fellings.

It is not possible from the information furnished by Divisional Officers to compile a statement showing the number and kind of trees felled under this class of exploitation in each forest. This will be done in future years.

Improvement fellings.

67. (2). Improvement fellings should comprise all those which are made in the interest of the existing crop, and are not connected with its removal and replacement by a new one. Such in reality comprise all the fellings in the Naini Tal Division, except the regeneration fellings prescribed by the Working Plan for the Rámikhet Forests, and the selection fellings in the Chír Forests near Naini Tal, though they are described in the Working Plans as selection fellings, and owing to the inequality and incompleteness of the forests may be confused with them.

In the Kumaun Division improvement fellings were continued in the Bhakra, Lakhmanmandi, Horai, Jaunla Sal and Gulapani Forests. The sales by auction of the produce of these fellings have not been a success; and if the improvement fellings are to be done properly and within a reasonable time, it is considered that they must be carried out departmentally, the areas then being thrown open to exporters to fashion and remove the produce.

From the Garhwál Division the area covered by these fellings, which was small, is not reported.

In the Ganges Division the improvement fellings prescribed in the Palain Kohtri Working Plan were commenced; the area gone over lightly was 652 acres.

The area of similar fellings in the Bundelkhand Division is wanting.

Coppice fellings

68. (3). The only coppice fellings, not taking into consideration a small plot of Sissoo cut over at Jubileeganj in the Kumaun Division, were the strip fellings in the Rehar Forest in the Garhwál Division. These have not been successful, and a new Working Plan for this forest, as reported elsewhere, has been framed.

Unregulated fellings.

69. (4). Unregulated fellings call for no special notice, they comprise the removal of dry wood, the clearing of new fire lines, &c., and account for a very large proportion of the yield of the forests of the Naini Tal Division, since the outturn of those forests as prescribed by the Working-Plans came to be exceeded.

(e).—Extraction and transport of Forest produce by Land and Water.

Extraction and transport of Forest produce.

70. Dry wood and bamboos are floated down the Rámganga river, but otherwise the entire extraction and transport are by land, and no special means are in vogue. Everything is carried on coolies, buffaloes and bullocks, or on carts; and the system of export roads is well maintained, and constantly extended and improved, as may be seen from the Chapter dealing with communications.

(f). *Exploitation of Minor Forest produce.*

1.—Extraction of Fodder.

Extraction of Fodder in Naini Tal Division.

71. The only fodder grass extracted in quantity is that for the supply of the Naini Tal settlement, and this has so far not been controlled. Under recent orders of Government it will be brought under control and extracted under permits from the 1st January 1894.

2.—Grazing.

Value of grazing.

72. Form No. 55 shows that the forests provide grazing valued at full rates at Rs. 60,790, of which Rs. 34,553 worth is allowed free under rights and privileges. A further remission of Rs. 1,935 is made on account of animals admitted at privileged rates, and Rs. 24,302 are actually realized.

The dues levied in the Bundelkhand Division are only 1 anna per cow or bullock, and 2 annas per buffalo for a year. In other Divisions they are four times that rate.

3.—Miscellaneous produce.

Exploitation of bamboos.

73. The exploitation of bamboos is regulated as previously reported by a scheme under which areas cut over one year are closed during the next, and this treatment is so far favourably reported upon.

Exploitation of Katha in the Kumaun Division.

74. The following statement gives the details of 746 maunds of Katha worked out of the Kumaun forests:—

Range.	Block.	Acres.	Number of trees felled.					Cubic feet of timber used.	Katha.		Katha per c. ft.	Number of Handis.	Royalty on		Total Royalty	Remarks.
			1½' to 3.'	3' to 4½.'	4½' to 6.'	Over 6.'	Total.						Handis.	Katha.		
									Mds.	Srs	Seers.		Rs.	Rs. a.	Rs. a	
Fatehpur ...	Chaunsila.	500	697	841	531	...	2,069	14,868	488	16	1·31	804	...	2,197 13	2,197 13	Fully worked.
Chaubhainsi	Hanspur ...	260	...	55	83	59	197	2,504	44	17	0·71	240	180	399 13	579 13	½rd worked.
Kalonia ...	Kumia ...	425	206	310	160	...	676	6,760	91	20	0·54	276	207	823 8	1,030 8	Fully worked
Ditto ...	Dogari ...	215	187	252	281	...	720	7,200	96	0	0·53	256	192	864 0	1,056 0	
Sarda ...	Guliapani.	64	88	72	...	...	160	800	26	4	1·30	72	54	224 14	278 14	
	Total ...	1,464	1,178	1,530	1,055	59	3,822	32,132	746	17	0·93	1,648	633	4,510 0	5,143 0	

Leasing of Chuna Khán Lime quarries.

75. The Chuna Khan lime quarries in the Kumaun Division have been leased to a Company for the term of 10 years commencing 1st November 1892, on a payment of Rs. 9,000 per annum for the first 5 years of the lease and Rs. 13,500 for the rest of the term.

Chapter III.—GROSS YIELD AND OUTTURN OF FOREST PRODUCE.

Yield and outturn of Forest produce.

76. Forms 57 and 58 show the gross yield and outturn of the produce of the forests by the several agencies by which the forests are exploited, whilst Form 59 is confined to operations conducted by the department directly. All the figures quoted in this chapter are extracted from these three Forms.

It should be premised that the yield and outturn for the interval of three months (April, May and June, 1892) between the close of the last Financial year and the commencement of the present Forest year are included in the statements of the year under report.

Departmental operations.

77. The following statement is an abstract of Forms 57, 58 and 59, so far as departmental operations are concerned, compared with the figures of the previous year.

Produce.		Year. 1891-92.	Year. 1892-93.	Increase.	Decrease.
Timber.		C. ft.	C. ft.	C. ft.	C. ft.
(1) Clear or regeneration fellings		...	...	...	...
(2) Selection fellings		14,410	29,650	15,240	...
(3) Improvement fellings		...	50,953	50,953	...
(4) Coppice fellings		...	...	...	...
(5) Unregulated fellings		...	33	33	...
Total Timber ...		14,410	80,636	66,226	...
Fuel	C. ft.	1,66,400	2,58,828	92,428	...
Bamboos	Nos.	6,17,890	3,05,964	...	3,11,926
Grazing and Fodder grass ...	Rs.	...	...	...	...
Minor produce	Rs.	697	925	228	...

Explanation of differences in outturn.

78. The very considerable increase under timber this year is, partly, apparent only, since the cubic contents of *kiras* and *koryas* (small timber) in the Bundelkhand Division have been given for the first time, the number only being entered in previous years. Further, timber used for departmental works has this year been shown under Government agency in Forms 57, 58 and 59. It was heretofore erroneously included under free grants. Lastly, the fellings for the interval of three months between the close of the last Financial year and the beginning of the Forest year are included in the Annual Forms.

The large decrease under bamboos occurs entirely in the Bundelkhand Division. There was a stock of 4,32,493 bamboos left on hand in the depôts of that Division at the close of the previous year, necessitating caution in the cutting of bamboos this year. The whole of this balance, with 1,38,299 from the fellings of the year, were disposed of and there were only 99,161 in stock at the close of the year.

Work done by Departmental agency.

79. Work by departmental agency was conducted during the year in all Divisions, but was confined in the Kumaun, Garhwál and Ganges Divisions to preparing timber for departmental buildings, the total quantity used for this purpose being 24,642 cubic feet.

In the Naini Tal Division work by Government agency consists in the supply of fuel to the Commissariat Department at Naini Tal and Ránikhet, 2,38,144 cubic feet of fuel having been delivered to meet the requirements of the troops of these places.

In the Bundelkhand Division 55,994 cubic feet of timber, teak, and miscellaneous poles were prepared for the market; 20,684 cubic feet of fuel were collected and 3,02,584 bamboos were also cut during the year and carted to the different sale depôts, 62,549 being written off as lost and 2,575 used by the department.

Exploitation by Government agency.

80. An account of the timber and other produce cut and collected by Government agency and brought to sale depôts during the year under report will be found in Form No. 59.

The following is an abstract of the details exhibited in that form :—

Receipts.	Number or quantity.	Cubic feet.	Disposals.	Number or quantity.	Cubic feet.
Balance in hand at commencement of the year.			*Removed by purchasers from Depôts.*		
(1) Timber	2,467	3,264	(1) Timber	7,759	11,367
(2) Kiras and Koryas ...	5,025	5,025	(2) Kiras and Koryas ...	29,583	29,583
(3) Fuel Mds.	431	1,734	(3) Fuel Mds.	1,22,046	2,50,028
(4) Bamboos Nos.	4,32,493	...	(4) Bamboos Nos.	5,70,792	...
(5) Grass Bdles.	1,79,000	...	(5) Grass Bdles.	8,12,500	...
			(6) Miscellaneous ...	199	...
Received from Forests in Depôts.			*Sold locally.*		
(1) Timber	9,982	37,669	(1) Fuel Mds.	40	80
(2) Kiras and Koryas ...	42,967	42,967	(2) Catechu "	10	...
(3) Fuel Mds.	1,24,046	2,58,748			
(4) Bamboos Nos.	3,05,964	...	*Struck off.*		
(5) Grass Bdles.	6,95,000	...			
(6) Miscellaneous ...	1,655	...	(1) Timber	98	141
			(2) Kiras and Koryas ...	29	29
Received from Forests and sold locally.			(3) Fuel Mds.	273	754
			(4) Bamboos Nos.	62,549	...
(1) Fuel Mds.	40	80	*Used by Department.*		
(2) Catechu "	10	...			
			(1) Timber	1,300	24,702
			(2) Kiras and Koryas ...	14	14
			(3) Bamboos Nos.	5,955	.
			(4) Miscellaneous ...	1,456	...
			Balances at the close of the year.		
			(1) Timber	3,292	4,723
			(2) Kiras and Koryas ...	18,366	18,366
			(3) Fuel Mds.	2,158	9,700
			(4) Bamboos Nos.	99,161	...
			(5) Grass Bdles.	61,500	...
Total			*Total*		
(1) Timber	12,449	40,933	(1) Timber	12,449	40,933
(2) Kiras and Koryas ...	47,992	47,992	(2) Kiras and Koryas ...	47,992	47,992
(3) Fuel Mds.	1,24,517	2,60,562	(3) Fuel Mds.	1,24,517	2,60,562
(4) Bamboos Nos.	7,38,457	...	(4) Bamboos Nos.	7,38,457	...
(5) Grass Bdles.	8,74,000	...	(5) Grass Bdles.	8,74,000	...
(6) Catechu Mds.	10	...	(6) Catechu Mds.	10	...
(7) Miscellaneous ...	1,655	...	(7) Miscellaneous ...	1,655	...

Produce removed by purchasers and consumers.

81. The following statement is a general summary of the produce removed by purchasers and consumers as compared with that of the previous year :—

Produce.	Year.		Difference.	
	1891-92	1892-93	Increase.	Decrease
Timber.	C. ft.	C. ft.	C. ft.	C. ft.
(1) Clear or regeneration fellings ...	...	...	...	...
(2) Selection fellings	4,38,375	5,36,898	98,523	...
(3) Improvement fellings	75,709	2,35,238	1,59,529	...
(4) Coppice fellings	61	7,113	7,052	...
(5) Unregulated fellings	2,40,521	4,46,934	2,06,413	...
Total Timber ...	7,54,666	12,26,183	4,71,517	...
Fuel c. feet. ...	10,92,406	17,36,048	6,43,646	...
Bamboos ... Nos. ...	1,45,42,213	2,00,50,636	55,08,423	...
Grazing and Fodder grass ... Rs. ...	35,391	32,728	...	2,663
Minor produce ... Rs. ...	47,877	72,412	24,535	...

82. Making allowance for the fact that the period treated of in this report is three months longer than the previous year, and which explains the large increases of the year, the demand for forest produce of all kinds has been fully maintained, and has even exceeded that of the previous year, as the revenue derived during the year shows, notwithstanding the heavy winter rains which considerably impeded traffic during February and March, which are generally the most busy months of the working season. A comparison of this table with the two preceding ones also shows that the Department now mainly relies upon private enterprise for the removal of its produce.

Review of removal of Forest produce by purchasers and consumers.

In the Naini Tal Division purchasers' removals consist principally of timber for building at Naini Tal and Ránikhet, and fuel for the settlement at Naini Tal.

In the Kumaun, Garhwál and Ganges Divisions timber, sawn and in logs, and bamboos exported by merchants to the chief marts of the province, yeild the bulk of the revenue under removals by purchasers and consumers; whilst Bundelkhand also furnishes supplies of bamboos exported by purchasers to Agra, Allahabad and Cawnpore.

Free Grants.

83. Free Grants of forest produce were made to the extent noted below:—

Produce.	Year.		Difference.		Remarks.
	1891-92.	1892-93.	Increase.	Decrease.	
Timber.	C. ft.	C. ft.	C. ft.	C. ft.	The following are the particulars of these grants:—
(1) Clear or regeneration fellings.	...	...	...	...	*Timber* C. ft.
(2) Selection fellings ...	24,951	11,516	...	13,435	*Kumaun Division.*
(3) Improvement fellings ...	12,229	800	...	11,429	Nawáb of Rámpur ... 6,473 Executive Engineer, Almora... 590
(4) Coppice fellings ...	...	...	...	...	7,063
(5) Unregulated fellings ...	7,427	...	...	7,427	*Ganges Division.*
Total Timber ...	44,607	12,316	...	32,291	Officer Commanding, Lansdowne. 1,026 Graziers 3,266 4,292
Fuel C. ft.	5,770	2,500	...	3,270	*Bundelkhand Division.*
Bamboos Nos.	5,440	...	...	5,440	To village communities ... 961
Grazing and Fodder grass Rs.	...	...	...	...	Total Timber ...12,316
Minor produce Rs.	612	110	...	502	Total Fuel ... 2,500
					Kumaun Division. Lime. Nawáb of Rámpur ... Rs. 110

84. The quantities under this head necessarily fluctuate; but in explanation of the general decrease this year, it may be stated that, in previous years, produce used in Departmental Works was included under Free Grants.

Explanation of decrease in Free Grants.

Produce removed by rightholders.

85. The following table shows the produce removed by rightholders and under privileges :—

Produce.	Year.		Differences.	
	1891-92.	1892-93.	Increase.	Decrease.
Timber.	C. ft.	C. ft.	C. ft.	C. ft.
(1) Clear or regeneration fellings ...	...	...	...	...
(2) Selection fellings	77,929	90,802	12,873	...
(3) Improvement fellings	55,268	72,317	17,049	...
(4) Coppice fellings	...	..	...	...
(5) Unregulated fellings	24,668	22,132	...	2,536
Total Timber ...	1,57,865	1,85,251	29,922	2,536
Fuel ... ... C. ft.	13,59,826	13,97,590	37,764	...
Bamboos ... ... Nos.	97,360	2,18,331	1,20,971	...
Grazing and Fodder grass ... ... Rs.	34,553	34,553	..	...
Minor produce ... ... Rs.	753	865	112	...

The increases are due to the present report covering a period of 15 months, and call for no special comment.

Removal of produce from the Forests.

86. In the following table the figures of Forms Nos. 57 and 58 are summarized for the Circle :—

Produce.	Year 1892-93.
Timber.	C. ft.
(1) Clear or regeneration fellings	...
(2) Selection fellings	368,866
(3) Improvment fellings	359,308
(4) Coppice fellings	7,113
(5) Unregulated fellings	469,099
Total Timber	15,04,386
Fuel ... ... C. ft.	3,394,966
Bamboos ... ... Nos.	20,574,931
Grazing and Fodder grass ... ... Rs.	67,281
Minor produce .. .. Rs.	74,312

Summary of produce removed from Forests by Divisions.

87. The following is a summary of produce removed from the Forests by Divisions as abstracted from Forms Nos. 57 and 58 :—

Division.	Timber.	Fuel.	Bamboos.	Grazing and fodder grass.	Minor produce.
	1892-93.	1892-93.	1892-93.	1892-93.	1892-93.
	C. ft.	C. ft.	Nos.	Rs.	Rs.
Naini Tal	342,754	817,608	132,924	13,423	3,002
Kumaun	309,449	1,394,611	1,480,750	21,394	44,011
Garhwál	396,752	575,997	4,395,125	9,771	10,571
Ganges	244,945	474,540	13,978,900	10,665	10,745
Bundelkhand	210,486	132,180	587,232	12,028	5,983
Totals ...	1,504,386	3,394,966	20,574,931	67,281	74,312

Showing the results of fifteen months' working.

Outturn by Divisions.

88. For purposes of comparison with past as well as future years, the following table shows the yield for the Financial year 1892-93, the Forest year July, 1892-June, 1893, as well as the figures for 1891-92.

Division.	Timber			Fuel.			Bamboos.			Grazing and fodder grass			Minor Produce.		
	1891-92.	1892-93, Financial year.	1892-93, Forest year.	1891-92.	1892-93, Financial year.	1892-93, Forest. year.	1891-92.	1892-93, Financial year.	1892-93, Forest year.	1891-92.	1892-93, Financial year.	1892-93, Forest year.	1891-92.	1892-93, Financial year.	1892-93, Forest year.
	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	Nos.	Nos.	Nos.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Naini Tal	248,332	328,132	261,224	5,96,976	582,910	399,711	31,480	92,589	94,104	12,486	10,352	10,635	4,310	2,061	2,517
Kumaun	180,892	208,609	249,396	1,010,255	1187,384	1309,467	1,330,580	850,870	13,21,990	21,475	21,310	21,297	26,596	35,386	33,080
Garhwál	289,658	292,509	315,849	532,124	535,681	521,242	3,147,240	3,218,320	3,133,385	10,632	9,572	9,535	7,847	9,202	9,114
Ganges	163,000	159,074	144,902	452,779	345,236	344,457	9,952,232	8,815,973	4,253,244	11,457	7,211	8,032	6,225	8,182	9,065
Bundelkhand	89,666	190,243	179,549	32,268	118,849	99,693	801,370	509,172	560,302	13,894	11,615	11,677	4,961	4,731	4,678
Total ...	971,548	1,178,567	1,150,920	2,624,402	2,770,060	2,674,570	15,262,903	13,486,924	9,363,025	69,944	60,060	61,176	49,939	59,562	58,454

CHAPTER IV.—FINANCIAL RESULTS.

Financial Forms.

89. The following Forms, which are appended to the report, contain the financial figures of the year :—

(i) Form No 61—Summary of Revenue and Expenditure.
(ii) „ „ 62—Account current.
(iii) „ „ 63—Revenue received and outstandings on account of revenue.
(iv) „ „ 64—Outstandings and liabilities on account of contractors and disbursers
(v) „ „ 65—Financial results of the year by main heads

Revenue and expenditure of the year.

90. The revenue and expenditure of the year amounted to :—

(i). *For the Financial year,* 1*st April* 1892 *to* 31*st March* 1893.

			Rs
Revenue			5,58,644
		Rs	
Expenditure A		1,48,547	2,84,029
„ B		1,35,482	
	Surplus		2,74,615

(ii). *For the Forest year,* 1*st July* 1892 *to* 30*th June* 1893.

			Rs
Revenue			5,96,987
		Rs	
Expenditure A		1,53,982	2,91,905
„ B		1,37,923	
	Surplus		3,05,082

whilst the figures for the three months April, May and June 1892, intervening between the close of the last year and the commencement of the Forest year under report, are :—

		Rs.
Revenue		1,88,634
Expenditure		68,895
	Surplus	1,19,739

Comparison with previous years' figures

91. The comparison with the figures of the three previous years is as follows :—

Year	*Revenue.*	*Expenditure*	*Surplus*
	Rs	Rs	Rs
1889-90	5,92,943	2,59,920	3,33,023
1890-91	5,80,384	2,49,568	3,30,816
1891-92	5,33,274	2,76,366	2,56,908
1892-93 (Financial year)	5,58,644	2,84,029	2,74,615
1892-93 (Forest year)	5,96,987	2,91,905	3,05,082
3 months April, May, June 1892.	1,88,634	68,895	1,19,739
For the 15 months April 1892 to June 1893, as per Comptroller-General's Form No 61	7,85,621	3,60,800	4,24,821

The Financial results, though not so good as those of the years 1889-90 and 1890-91, are better than those of the previous year.

Revenue and expenditure by Divisions.

92. The following statement compares the actuals of both the Financial and Forest years by Divisions with those of the previous year :—

Division.	Receipts.			Charges.			Surplus.			Deficit.		
	1891-92.	1892-93, Financial year	1892-93, Forest year.	1891-92	1892-93, Financial year	1892-93, Forest year.	1891-92	1892-93, Financial year.	1892-93, Forest year.	1891-92.	1892-93 Financial year.	1892-93, Forest year.
	Rs.	Rs.	Rs.	Rs	Rs	Rs.	Rs.	Rs	Rs.	Rs.	Rs.	Rs.
Direction ...	1	...	2	22,847	13,220	47,724	...	...	...	22,846	43,220	47,722
Naini Tal ...	63,711	62,552	79,623	53,291	54,511	56,440	10,120	8,038	23,183	.	...	...
Kumaun ...	1,11,891	1,30,253	1,50,746	53,301	50,123	49,019	61,590	80,130	1,01,727	...	. .	...
Garhwál ...	1,81,504	1,95,106	1,92,634	72,244	73,827	75 298	1,09,260	1,21,279	1,17,336	... .	...	...
Ganges ...	1,12,794	1,38,487	1,41,370	50,022	41,971	43,053	92,772	96,516	98,317	...	...	...
Bundelkhand ...	30,373	32,246	32,612	24,661	20,374	20,371	5,712	11,872	12,241	...	...	...
Total .	5,33,274	5,58,644	5,96,987	2,76,366	2,84,029	2,91,905	2,79,754	3,17,835	3,52,804	22,846	43,220	47,722
Net surplus ...	. .	...	...	. .	...	. .	2,56,908	2,74,615	3,05,082	...	.	...

The surplus of the Forest year is larger than that of either the previous year or of the Financial year 1892-93.

The Garhwál Division heads the list with the highest gross revenue and the largest surplus, the Kumaun Division coming next.

Receipts and charges under main heads for Financial Year.

93. The receipts and charges, together with the resulting surplus or deficit, under the three mainheads of accounts for the last two Financial years were :—

	Receipts.				Charges.				Surplus or deficit.			
	1891-92	1892-93.	Increase	Decrease.	1891-92.	1892-93.	Increase	Decrease	Surplus	Deficit.	Surplus.	Deficit.
									1891 92.		1892-93.	
	Rs	Rs.	Rs.	Rs.	Rs	Rs	Rs.	Rs.	Rs	Rs	Rs.	Rs.
I.—Departmental operations.	44,451	49,383	4,932	...	35,736	38,456	2,720	...	8,715	...	10,927	...
II.—Other Revenue,	4,88,823	5,09,261	20,438	...	1,15,076	1,19,259	4,183	...	3,73,747	...	3,90,002	...
III.—Protection ..	...	...	...	...	1,25,554	1,26,314	760	...	...	1,25,554	...	1,26,314
Total ...	5,33,274	5,58,644	25,370	...	2,76,366	2,84,029	7,663	...	2,56,908	...	2,74,615	...

Thus only 23 per cent. of the gross revenue of the Financial year has been spent on protection and improvement of the forests against 24 per cent. during the previous year; further, of the year's expenditure on this account 37 per cent. alone was incurred on roads and buildings, leaving 63 per cent. for other improvements.

Receipts and charges under main heads for the Forest year.

94. The figures classified in the same way for the Forest year 1892-93 are :—

	Receipts.	Charges.	Surplus or Deficit.	
			Surplus.	Deficit.
	Rs.	Rs.	Rs.	Rs.
I.—Departmental operations	61,856	39,531	22,325	...
II.—Other Revenue	5,35,131	1,24,592	4,10,539	...
III.—Protection	...	1,27,782	...	1,27,782
Total ...	5,96,987	2,91,905	Net Surplus. 3,05,082	...

Showing 21 per cent. of the gross revenue of the Forest year expended on protection and improvement againt 24 per cent. of the previous year; of the year's expenditure on this account 39 per cent. was incurred on roads and buildings, leaving 61 per cent. for other improvements.

Revenue and expenditure under budget heads.

95. The following tables compare the totals of receipts and expenditure under each budget head with those of the previous year and also for the Forest year :—

Receipts.

Year.	Budget heads.					Total.
	I.	II.	III.	IV	V.	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1891-92	44,451	4,81,040	1,695	...	6,088	5,33,274
1892-93 (Financial year) ...	49,382	4,91,915	604	...	16,743	5,58,644
1892-93 (Forest year) ...	61,856	5,17,824	824	...	16,483	5,96,987
Increase ... Financial year ...	4,931	10,875	...	...	10,655	25,370
Increase ... Forest year ...	17,405	36,784	...	...	10,395	63,713
Decrease ... Financial year ...	...	...	1,091	...	...	...
Decrease ... Forest year ...	...	...	871	...	...	...

Expenditure.

Year.	A.—Conservancy and works.										B.—Establishments.				Grand total A. and B.
	Budget heads.									Total.	Budget heads.			Total.	
	I.	II.	III.	IV	V.	VI.	VII.	VIII.	IX.		I.	II.	III.		
	Rs	Rs.	Rs	Rs	Rs.	Rs	Rs.	Rs	Rs.	Rs	Rs	Rs	Rs.	Rs	Rs.
1891-92 ...	23,631	26,387	6	..	507	13,157	54,740	36,193	1,367	1,55,988	97,723	15,419	7,236	1,20,378	2,76,366
1892-93 (Financial year) .	27,175	27,003	...	..	562	9,301	49,296	34,308	902	1,48,547	1,12,165	16,059	7,258	1,35,482	2,84,029
1892-93 (Forest year) ...	29,910	27,011	..	...	744	9,453	53,533	30,699	2,629	1,53,082	1,13,929	16,538	7,456	1,37,923	2,91,905
Increase Financial year,	3,544	616		...	55	...	...	...	...	...	14,442	640	22	15,104	7,663
Increase Forest year ...	6,279	627	...	...	237	...	...	...	1,262	...	16,200	1,119	220	17,545	15,539
Decrease Financial year,	...	...	6	...	...	3,856	5,444	1,885	465	7,441	...	...	...	...	...
Decrease Forest year .	...	...	6	...	...	3,704	1,207	5,494	...	2,006	...	...	...	...	...

96. The difference in the value of timber and other produce and of live and dead stock in hand at the beginning and at the close of the fifteen months under report was :—

Form Nos. 60 A. and B.
Value of live and dead stock.

	Timber, &c.	Live and dead stock.
	Rs.	Rs.
Value on 1st April 1892	6,617	1,75,459
Ditto 30th June 1893	3,738	1,93,274
Difference ...	—2,897	+17,815
Net balance in favour of the year	...	14,936

97. The outstandings on account of revenue have increased from Rs. 1,120 at the commencement, to Rs. 6,911 at the close, of the fifteen months, while those due from contractors and disbursers stood as follows :—

Forms Nos. 63 and 64.
Outstandings.

	Rs.
On 1st April 1892	5,241
„ 30th June 1893	14,537

Net results of the year's transactions.

98. The value of the transactions of the Forest year compares with the average of the past four years as under :—

	Rs.
Cash surplus, Forest year, July 1892 to June 1893	3,05,082
Add—Increased value of stock—Form 60 A. and B.	14,936
Add—Outstandings due—Forms Nos. 63 and 64	21,148
Total in favour of the year ...	3,41,466
Average of the past four years ...	3,18,137

99. With a view to the figures given in this chapter being readily followed, the Financial Forms Nos. 61, 62, 63, 64 and 65 are appended to this report for both the Financial year ending 31st March 1893 and the fifteen months ending 30th June 1893. This period has been treated by the Comptroller as the Forest year 1892-93, instead of the twelve months July 1892-June 1893, which appear to the Conservator to be the proper Forest year.

Financial Forms for Financial and Forest years.

Chapter V.—FOREST ADMINISTRATION.

Officers in charge.

100. The charge of the Circle was held during the period under report as follows :—

	From	To
Mr. A. E. Wild, Conservator,	April 1892	24th October 1892.
Mr. C. Bagshawe, Conservator,	25th October 1892	17th March 1893.
Mr. H. C. Hill, Conservator,	18th March 1892	to the close of the year.

And the different Divisions were in charge of the following officers :—

Naini Tal ...	Mr. A. G. Hobart-Hampden, Deputy Conservator.
Kumaun ...	Mr. J. M. Blanchfield, Extra Assistant Conservator, 1st April 1892 to 1st June 1893. Mr. F. A. Leete, Assistant Conservator, 1st to 30th June 1893.
Garhwál ...	Colonel J. E. Campbell, Deputy Conservator.
Ganges ...	Mr. E. A. Down, Deputy Conservator, 1st to 7th April 1892. Mr. B. B. Osmaston, Deputy Conservator, 8th April 1892 to 23rd June 1892. Mr. J. M. Blanchfield, Extra Assistant Conservator, 24th June 1892 to 20th October 1892. Mr. W. Shakespear, Deputy Conservator, 21st October 1892 to close of the year.
Bundelkhand ...	Babu Raghunath Pathak, Extra Assistant Conservator.
Working-Plans ...	Mr. F. B. Bryant, Deputy Conservator, 28th November 1892 to close of the year.

Mr. E. A. Down was on furlough for 18th months from the 8th of April 1892.

Mr. E. L. Haslett, Extra Assistant Conservator, was employed as a Sub-Divisional Officer in the Garhwál Division.

101. The only trained Rangers attached to the Circle were Parshadi Lal and Mehdi Hasan, until two newly-passed students of the Forest School, Kanhya Lal and Kali Charan Varma, joined in April 1893. There are now at the Forest School five second-year students, three following the English and two following the vernacular course, and four first-year students, of whom three attend the English and one the vernacular classes. Mr. Martin, Ranger, was transferred in July 1892, as a probationary Extra Assistant Conservator, to Berar.

Trained Rangers and Forest Students.

102. The introduction of a more systematic working of the Forests goes hand in hand with the reorganization of the Subordinate Service, sanction to which seems to have been inordinately long in being accorded. Without the means of executing works by qualified men, the more detailed working of the forests involving the removal of the material which approximates their possibility, cannot be properly carried out; and it will result, unless a competent staff of Rangers and Foresters is provided, that the prescriptions of Working-Plans will either not be adhered to or complied with in such a way as to fail in their object.

Reorganization of the Subordinate Service.

103. The following statement compares the expenditure during the fifteen months with that incurred on account of Subordinate Forest and Office establishments in 1891-92 :—

Sanctioned and actual expenditure on establishments.

Provincial forest service (below the rank of Extra Assistant Conservator) and subordinate service.					Office establishment.			
Year.	Permanent.	Temporary.	Total.	Actual expenditure.	Permanent.	Temporary.	Total.	Actual expenditure.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1891-92 ...	34,620	28,382	63,002	56,103	11,604	1,260	12,864	12,255
1892-93 (Fifteen months, April 1892 to June 1893.)	43,275	35,469	78,744	72,343	14,505	2,418	16,923	16,911

104. The Officers of the Upper Controlling Staff, as the progress recorded in this report testifies, did their work in a manner which may be commended to Government.

Services of Upper and Lower Controlling Staff.

Mr. J. M. Blanchfield and Mr. Raghunath Pathak, Extra Assistant Conservators, both gave satisfaction in charge of Divisions.

Mr. E. L. Haslett, Extra Assistant Conservator, has not been well reported upon; it is hoped that his work under the Working-Plans' Officer during the coming field season will be more satisfactory.

105. The Subordinate Forest Staff has, on the whole, given satisfaction to Divisional Officers.

Conduct of Subordinate Forest and Office establishments.

Office establishments are also favourably reported upon, with the one exception of the Head clerk in the Bundelkhand Division.

It is recorded with satisfaction that the head office has been as ably and conscientiously superintended by Mr. Sheils as that of any of the different Circles of which the present Conservator has from time to time held charge, and the clerks have done their duties well.

The health of establishments is considered to have been fairly good, in spite of no fewer than one Forester and eight Forest Guards having died in the Kumaun Division, and six Guards in the Ganges Division.

General Remarks.

New scheme for supply of firewood to residents of Naini Tal.

106. Orders have been passed by which the supply of firewood to residents of Naini Tal will from 1st of January 1894 be arranged for departmentally by means of conveniently situated sale depôts where wood will be on sale at five maunds to the rupee. This will put an end to the objectionable system remarked upon in previous reports under which *Jhampan* bearers were allowed to help themselves on payment of a monthly wood cutting fee, first to dry wood, and later, when that was exhausted, to trees killed by the department, and still later, when that supply failed, to green wood cut by the department for them.

Under this system, which has been changed none too soon, the forests bordering on the settlement were fast being denuded, and it was estimated that, against a payment of Rs. 3,300 for permits, residents obtained some 40,000 maunds of wood, and the *Jhampan* bearers profited to the extent of Rs. 10,000 a year by 40,000 maunds of wood in excess of deliveries to their employers, which they sold in the bazár at four maunds to the rupee.

107. There were 10 Elephants at the commencement of the year, and one animal was purchased from the Balrámpur estate for Rs. 1,500, but this newly-purchased animal died shortly after the close of the year.

The Nepal Kheda.

108. The Nepal Kheda was at work in December in the Ganges Division, and 16 elephants were caught, of which four were taken away and the remainder either died or were set free.

Weather conditions of the year.

109. The exceptionally rainy season interfered with work and the extraction of produce, but conduced to successful protection from fire.

A man-eating tiger.

110. A man-eating tiger put a stop to the working of the North Patli Dún forests for a time. A special reward was offered for his destruction, and he was known to have been shot at. He may have been killed, since he has not been heard of for some months.

Dated Naini Tal,
The 4th October 1893.

H. C. HILL,
Conservator of Forests, Central Circle,
N.-W. Provinces and Oudh.

ANNUAL STATEMENTS

AND

APPENDICES.

FOREST DEPARTMENT, CENTRAL CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

AREA OF RESERVED FOREST 1892-93.

Division.	Range.	Civil District or Territory.	Name of Forest.	Area on 1st April 1892. Acres.	Area on 1st April 1892. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 30th June 1893. Acres.	Area on 30th June 1893. Equivalent in square miles.	No. and date of Notification of addition or transfer.	Remarks.
Naini Tal.	China ...	Naini Tal ...	Naini Tal Reserve { Kota	15,570	24	...	1,050	14,520	23	No. 258F / 200-95, dated 2nd March 1893.	Transferred to the Kumaun Division consequent on revision of Divisional boundaries.
	Manora ...		Fatehpur ... Dechauri ...								
	Do. ...	Do ...	Dolmar-Mora—I Dolmar-Mora ...	6,400	10	...	2,314	2,086	6	...	Revision of area.
	Hinnan ...		Gagar-Nilglat	11,853	19	...	...	11,853	19	No. 733F. / 347A-26' dated 16th August 1892.	Transferred to Ranikhet Reserve from the Cantonment land consequent on revision of boundaries.
	Ranikhet ...	Almora ...	Ranikhet Reserve	4,931	8	145	...	5,076	8		
			Total ...	38,754	61	145	3,364	35,535	56		
Kumaun.	Dechauri ...	Naini Tal ...	II. Dechauri	17,754	28	(1)1,050	(2) 16	18,788	29	(1) No. 258F. / 200-92, date 22nd March 1893.	(1) Transferred from Naini Tal Division.
	Fatehpur ...		III. Fatehpur	29,002	45	...	...	29,002	45		
	Do. ...		Dolmar-Mora—II Baluiti ...	3,848	6	...	...	3,848	6		
	Chakhata ...		IV. Chakhata	59,884	93	...	...	59,884	93		
	Do. ...		V. Horai	4,400	7	...	...	4,400	7	(2) No. 563F / 248A-7, dated 16th July 1891.	(2) Excluded as village land.
	Chaubhansi ...		VI. Chaubhansi	1,32,233	207	...	...	1,32,233	207		
	Do. ...		VII. Jaunla Sal	42,708	67	...	...	42,708	67		
	Kalonia ...		VIII. Kalonia	4,286	7	...	...	4,286	7		
	Sarda ...		IX. Chini	4,387	7	...	...	4,387	7		
	Do. ...		X. Sarda Islands	3,491	5	...	...	3,491	5		
	Do. ...		XI. Chandani	403	1	...	...	403	1		
			Total ...	3,02,396	473	1,050	16	3,03,430	474		
Garhwál.	Patli Dùn ...	Garhwál ...	Reserve No. 1, Kotri Dùn Block, Kalagarh.	19,387	30	...	13,691·6	5,695·4	9		
	Do. ...		Ditto No. 2, Patli Dùn ...	1,33,558	209	2·2	...	1,33,560·2	209		
	Do. ...		Ditto „ 3, Kartia ...	847	1	...	...	847	1		
	Chilkia ...	Naini Tal ...	Ditto „ 4, Chilkia ...	82,685	129	13·6	(a) ...	a)82,698·6	129		(a) (a) Revisions of Areas.
	Kota ...		Ditto „ 5, Kota... ...	43,022	67	·6	...	43,022·6	67		
	Do. ...		Ditto „ 6, Dabka ...	7,141	11	414	...	7,555	12		
	Dhara ...	Bijnor ...	Ditto „ 7, Garhitulchand ...	11,098	17	...	0·4	11,097·6	17		
	Do. ...		Ditto „ 8, Rehar ...	16,619	26	25	...	16,644	26		
			Total ...	3,14,357	491	455·4	13,692	3,01,120·4	470		

FOREST DEPARTMENT, CENTRAL CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

AREA OF RESERVED FORESTS 1892-93—(*continued*).

Division.	Range.	Civil District or Territory.	Name of Forest.	Area on 1st April 1892. Acres.	Area on 1st April 1892. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 1st March 1892. Acres.	Area on 1st March 1892. Equivalent in square miles.	No. and date of Notification of addition or transfer.	Remarks.
Ganges.	Palain ...	Garhwál ...	Palain Reserves	33,292	52	...	...	33,292	52	(b) No. 556F. / 214A-17, dated 28th June 1892.	(a) Correction of area. (b) Transferred from Unclassed Forests of last year.
	Kohtri ...		Kohtri Reserve	43,710	68	...	...	43,710	68		
	Sona Nadi ...		Sona Nadi do.	54,095	84	(a) 1	...	54,096	84		
	Udepur ...		Udepur do.	52,603	82	(b) 2,050	(c) 14,574	40,079	63		
	Gohri ...		Gohri do.	39,822	62	...	...	39,822	62		
	Chandi ...	Bijnor, ...	Chandi do.	38,849	61	...	(d) 689	38,160	60		
	Do. ...	Garhwál ...	Luni do.	...	...	(e) 13,397	...	13,397	21		
	Lansdowne ...	Garhwál ...	Lansdowne	15,507	24	(f) 6	(g) 1,559	13,954	22		
			Total ...	2,77,878	434	15,454	16,822	2,76,510	432		
Bundelkhand.	Jhansi ...	Jhansi ...	Jhansi Reserve	30,602	48	12	...	30,614	48		
	Lalitpur ...	Do. ...	Lalitpur do.	89,908	140	1,568	3,210	88,266	138		
	Banda ...	Bandá ...	I.—Ranipur	16,220	25	...	...	16,220	25		
			II.—Chauri Donda	14,967	23	...	...	14,967	23		
			III.—Manikpur	10,899	17	...	...	10,899	17		
			IV.—Matdar	6,729	11	...	...	6,729	11		
			V.—Kolhua	6,182	10	...	...	6,182	10		
			Total ...	1,75,507	274	1,580	3,210	1,73,877	272		
			GRAND TOTAL ...	11,08,892	1,733	18,684	37,104	10,90,472	1,704		

Remarks:

(c) Transferred to Luni Range. — Acres. 13,397

Rectification of Paniali and Laipanidhar. — 34

By revision of area statements. — 1,143

14,574

(d) Land made over to Landhaura Estate by decree of Civil Court.

(e) Transferred from Udepur Range.

(f) and (g) Revision of area.

The additions and exclusion are all corrections of areas as furnished by the Survey Department.

ABSTRACT OF CHANGES DURING THE YEAR.

		Acres.
Area at commencement of year		11,08,892
Added :—	Acres.	
By correction of areas	2,042	
" reservation of unclassed forests	2,050	
" " of new areas	145	
	4,237	
Excluded :—		
By correction of areas	21,952	
Included in Reserves by mistake	689	
Under section 26 of the Forest Act	16	
Net decrease ...	22,657	18,420
Area at close of year		10,90,472

NAINI TAL;
Dated the 4th October 1893.

H. C. HILL,
Conservator of Forests, Central Circle, N. W. P. and Oudh.

FOREST DEPARTMENT, CENTRAL CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

AREA OF PROTECTED FORESTS 1892-93.

Division.	Range.	Civil District or Territory.	Name of Forest.	Area on 1st April 1892.		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1893.		Number and date of notification of addition or transfer.	Remarks.
				Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Naini Tal ...	China ...	Naini Tal ...	China	19,442	30	...	...	19,442	30		
	Hinan ...		Budlakot								
	Do. ...		Nalena								
	Do. ...		Bhawali								
	Do. ...		Jakh								
	Do. ...		Larihanta ...								
	Do. ...		Kurik								
	Siuni ...	Almora ...	Machor	146	...	...	...	146	...		
	Do. ...		Bhatronj	5,828	9	...	...	5,828	9		
	Do. ...		Siuni	4,432	7	...	...	4,432	7		
	Do. ...		Siun	700	1	...	...	700	1		
	Do. ...		Bellekh	942	1	...	...	942	1		
	Do. ...		Kathallekh	1,812	3	...	...	1,812	3		
	Ránikhet ...		Ganiadeoli	889	1	...	...	889	1		
	Do. ...		Karchuli	213	...	...	...	213	...		
	Do. ...		Chilianao	630	1	...	...	630	1		
	Do. ...		Chaubettia	1,208	2	...	...	1,208	2		
	Do. ...		Padholi	905	2	15(a)	...	920	2		
	Do. ...		Dwarson	1,519	2	...	...	1,519	2		
	Do. ...		Deolikhet	20	...	...	20(a)	...	...	...	(a) rectification of areas.
	Do. ...		Siahi Devi	2,064	3	...	...	2,064	3		
	Do. ...		Airadeo	16,757	26	...	...	16,757	26		
			Total ...	57,507	90	15	20	57,502	90		
Bundelkhand...	Lalitpur ...	Jhánsi ...	Talbehat ...	2,362	4	484(b)	...	2,846	4	...	(b) rectification of area.
			GRAND TOTAL ...	59,869	94	499	20	60,348	94		

Abstract of changes during the year.

	Acres.
Area at commencement of year	59,869
Added by rectification of areas	479
Area at close of year	60,348

NAINI TAL;
Dated the 4th October 1892.

H. C. HILL,
Conservator of Forests, Central Circle, N.-W. P. and Oudh.

Form No. 46

FOREST DEPARTMENT, CENTRAL CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

AREA OF UNCLASSED FORESTS 1892-93.

Division.	Range.	Civil District or Territory.	Name of Forest.	Area on 1st April 1892. Acres.	Area on 1st April 1892. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 30th June 1893. Acres.	Area on 30th June 1893. Equivalent in square miles.	No. and date of Notification of addition of transfer.	Remarks.
Ganges.	Kotri ...	Garhwál ...	Lalpani	1,500	2	...	1,500	...	...	No. 536F / 214A-17, dated 28th June 1892.	* These forests are administered by the district authorities, but the Forest Department registers the outturn of timber and produce from them, *vide* forms 57 and 58. (*a*) Constituted reserved forests and now included in the Udepur Range of the Ganges Division.
	Udepur ...	Ditto ...	Pan ali	550	1	...	550	...	...		
	—	Ditto ...	*Garhwál District Forests ...				Not known.				
			Total ...	2,056	3	...	(*a*)2,050	...	...		
Bundlekhand.	Bánda ...	Bánda ...	*I.—Ranipur Kalianpur.*								
			Nihi	2,109	...	...	...	2,109	9		
			Maholi	949	...	...	...	949			
			Kalianpur	2,671	...	...	...	2,671			
			Total ...	5,729	9	...	...	5,729	9		
			II.—Chauri Donda.								
			Karauhan	729	...	...	...	729	2		
			Sikapur Chit Ghati	69	...	...	...	69			
			Chulha	751	...	...	...	751			
			Total ...	1,549	2	...	...	1,549	2		
			III.—Manikpur.								
			Mahál Balkishen of Chuli village	26	...	...	...	26	...		
			Mahál Makhramgir of ditto	13	...	...	...	13	...		
			Total ...	39	...	...	...	39	...		
			IV.—Tikaria.								
			Bhenda or Bhera	778	...	...	...	778	21		
			Dadri Muafi	4,697	...	...	...	4,697			
			Tikaria Jamanhai	2,892	...	...	...	2,892			
			Gursarai	909	...	...	...	909			
			Rukma Buzurg	1,978	...	...	...	1,979			
			Marian Panwari or Mandayan Panwari	1,886	...	...	...	1,886			
			Total ...	13,140	21	.	...	13,140	21		
			GRAND TOTAL ...	22,507	35	...	2,050	20,457	32		

Abstract of changes during the year.

	Acres.
Area at commencement of the year	22,507
Excluded by transfer to Reserves	2,050
Area at close of year	20,457

NAINI TAL;
Dated the 4th October 1893

H. C. HILL,
Conservator of Forests, Central Circle, N.-W. P. and Oudh.

[Form No. 47

FOREST DEPARTMENT, CENTRAL CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

STATEMENT SHOWING THE PROGRESS MADE IN, AND THE EXPENDITURE INCURRED ON, FOREST SETTLEMENTS DURING 1892-93.

Name of Forest Division.	Name of Civil district or territory.	Area already settled at commencement of the year.	Areas finally settled during the year.						Areas undergoing settlement						Remarks.
			Number and date of Government order according final sanction to the settlement.	Name of Forest settled.	Area, in square miles.	Expenditure incurred during the year on areas finally settled. In Forest accounts	Expenditure incurred during the year on areas finally settled. In other accounts	Entire cost per square mile of areas finally settled during the year.	At commencement of the year. Name of tract.	At commencement of the year. Area, in square miles.	Taken in hand during the year. Name of tract.	Taken in hand during the year. Area, in square miles.	Expenditure incurred during the year on areas undergoing settlement. In Forest accounts.	Expenditure incurred during the year on areas undergoing settlement. In other accounts.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
		Sq. Ms.				Rs.	Rs.	Rs.							
									Reserved forests.						
Naini Tal ...	Naini Tal and Almora	56	No. 733F. / 34.A.—26 dated 16th August 1892.	Addition to Ránikhet reserve.	¼th	...	*Nil.**	...	...	...	Baldhanti and Kalamati.	¼th	...	...	* Settlement conducted by local Civil officers without special cost.
Kumaun ...	Naini Tal ..	80	...	...	...	...	...	...	The submontane portion of the Kumaun Division reserves.	394	...	...	1,200	...	
Garhwál ...	Bijnor ...	26	...	...	...	...	...	...	The submontane portion of the Garhwál Division reserves.	444	...	...	1,219	...	
Ganges ...	Bijnor ...	60	No. 556F. / 214A.—47 dated 28th June 1892.	Pauiali and Lalpanidhar.	3	...	*Nil.*	...	The submontane portion of the Ganges Division reserves.	347	Mohanwali and Amsot.	7½	† 1,000	...	† Expenditure incurred in the settlement of the submontane portion of the Ganges Division reserves. The Mohanwali and Amsot settlement being conducted by local Civil Officers without special cost.
	Garhwál ..	22													
		82													
Bunde khand	Jhánsi ..	48	...	...	...	...	...	...	...	...	...	...	...	...	
	Lalitpur ...	138													
	Bánda ...	86													
		272													
	Reserves ..	516	...	...	3	...	...	...	...	1,185	...	8	3,419	...	
									Protected forests.						
i Tal ...	Naini Tal ...	30	...	...	...	...	...	...	...	...	...	...	...	...	
	Almora ...	60													
		90													
elkhand ...	Jhansi ...	4	...	..	...	...	...	...	...	...	...	...	...	...	
	Protected ...	94	...	...	...	...	...	...	...	...	...	...	...	...	
	Grand Total.	610		...	3	..	...	...	.	1,185	...	8	3,419	...	

Abstract.

		Square miles.
Already settled at commencement of the year ...	...	610
Settled during the year	...	3
Undergoing settlement at commencement of the year	...	1,185
Total	...	1,798
Unclassed forests	...	32
Total area of Forests as per Form 46 ...	...	1,830

NAINI TAL;
Dated the 4th October 1893.

H. C. HILL,
Conservator of Forests, Central Circle, N.-W. P. and Oudh

[Form No. 48.

FOREST DEPARTMENT, CENTRAL CIRCLE.

RECORD OF DEMARCATION AND MAINTENANCE OF BOUNDARIES, 1892-93.

Division.	Length of boundaries artificially demarcated during the year.	Length of previously existing boundaries repaired.	Length of previously existing boundaries. not repaired.	Total length of artificially marked boundaries at the close of the year.	Length of boundaries not demarcated at the close of the year.	Length of natural boundaries not requiring artificial marks.	Total length of boundaries at the close of the year.	Expenditure on demarcation during the year.		Remarks.
								On new work.	On repairs.	
1	2	3	4	5	6	7	8	9	10	11
	Miles.	Miles	Miles.	Miles.	Miles.	Miles.	Miles.	Rs.	Rs.	
Naini Tal	...	44	532	576	...	...	576	...	226	
Kumaun	...	13	332	345	...	125	470	...	235	
Garhwál	1	50	370	421	...	62	483	8	180	
Ganges	8	59	211	278	3	96	377	120	187	
Bundelkhand	137	242	410	789	...	106	895	808	414	
TOTAL ...	146	408	1,855	2,409	3	389	2,801	936	1,242	

N. B.—Boundaries include, besides the outer perimeter, the limits of enclosures of private or other lands within the forests, but not the limits of sub-divisions, such as blocks, compartments, coupes.

NAINI TAL;
Dated the 4th October, 1893.

H C. HILL,
Conservator of Forests, Central Circle, N.-W. P. and Oudh.

[Form No. 49.

FOREST DEPARTMENT, CENTRAL CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

STATEMENT OF FOREST AREAS SURVEYED AND UNDER SURVEY DURING THE YEAR 1892-93.

Division.	Areas surveyed and under survey during the year.																								Areas remaining to be taken under survey.	Total Forest area at end of the year, as per Form No. 46.	Cost.			Remarks.
	Special surveys Maps on 4" scale or over, by Survey of India Department or Forest Survey Branch.								Ordinary, included in District Surveys.								Chain and compass or other surveys by local officers.													
	With interior details.					Boundary Surveys.			With interior details.					Boundary Surveys.			With interior details.					Boundary Surveys.							
	With details of growing stock by Working-plans Officers.		Without details of growing stock.						With details of growing stock.		Without details of growing stock.						4-inch or over.		Under 4-inch.											
	Previous.	Of the year.	Previous.	Of the year.	Total cost.	Previous.	Of the year.	Total cost.	Previous.	Of the year.	Previous.	Of the year.	Total cost.	Previous.	Of the year.	Total cost.	Previous.	Of the year.	Previous.	Of the year.	Total cost.	Previous.	Of the year.	Total cost.			Previous.	Of the year.	Entire cost of all surveys to end of the years.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Rs.			Rs.						Rs.							Rs.			Rs.	Sq. m.	Sq. m.	Rs.	Rs.	Rs.	
														(i) *Reserved Forests.*																
Naini Tal ...	23	...	33	...	7,015	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	26	...	...	...	...	56	7,015	26	7,041	
Kumaun ..	144	115	215	...	54,395	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	686	...	...	...	...	474	54,395	686	55,081	
Garhwál ...	43	15	412	...	56,465	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	195	...	...	...	...	470	56,465	195	56,660	
Ganges ...	10	...	422	...	50,650	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	81	...	...	...	...	432	50,650	81	50,731	
Bundelkhand	...	...	134	...	2,548	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	138	272	2,548	...	2,548	
Reserves ...	220	130	1,216	...	1,71,073	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	988	...	...	...	138	1,704	1,71,073	988	1,72,061	
														(ii) *Protected Forests.*																
Naini Tal ...	30	...	60	...	10,350	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	90	10,350	...	10,350	
Bundelkhand	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4	4	...	...	...	
Protected ...	30	...	60	...	10,350	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4	94	10,350	...	10,350	
														(iii) *Unclassed Forests.*																
Bundelkhand	...	...	32	...	Not known	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	32	Not known	...	Not known	
GRAND TOTAL .	250	130	1,308	...	1,81,423	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	988	...	...	...	142	1,830	1,81,423	988	1,82,411	

NAINI TAL;
Dated the 4th October 1893.

H. C. HILL,
Conservator of Forests, Central Circle, N.-W. P. and Oudh.

[Form No. 50.

FOREST DEPARTMENT, CENTRAL CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

PROGRESS MADE IN WORKING-PLANS, 1892-93.

Division.	Areas for which working-plans have been completed.		Areas for which working-plans are being compiled.		Areas for which working-plans have still to be taken in hand.	Total forest area, as in Form No. 46.	Entire cost per square mile of working-plans completed.	Remarks.
	At commencement of the year.	During the year.	At commencement of the year.	Taken in hand during the year.				
1	2	3	4	5	9	7	8	9
	Sq. miles.	Sq. miles.	Sq. miles.	Sq. miles.	Sq. miles.	Sq. miles.	Rs.	
				Reserved forests.				
Naini Tal	(a)50	...	...	...	6	56	42	(a) Ránikhet and Naini Tal working-plans.
Kumaun	(b)90	...	...	(c)474	...	474	36	(b) The Nindhaur working-plan.
Garhwál	(d)26	...	...	(e)470	...	470	...	(c) Includes the 90 square miles in column 2, as the plan of this area is under revision.
Ganges	(f)254	...	(g)10	...	168	432	...	(d) The Rehar forest.
Bundelkhand	...	...	...	...	272	272	...	(e) Includes the 26 square miles in column 2, as the plan for this area is under revision.
Total ...	420	...	10	944	446	1,704	...	(f) Ganges and Kohtri-Palain working-plans.
								(g) Lansdowne working-plan.
				Protected forests.				
Naini Tal	(h)50	...	...	...	40	90	42	(h) Ránikhet and Naini Tal working-plans.
Bundelkhand	...	...	...	...	4	4	...	
Total ...	50	...	...	...	44	94	...	
				Unclassed forests.				
Bundelkhand	...	...	...	...	32	32	...	
Total ...	...	...	...	...	32	32	...	
GRAND TOTAL ...	(i)470	...	10	944	522	1,830	...	(i) Includes 116 square miles also entered in column 5, for which working-plans are being revised.

NAINI TAL;
Dated the 4th October 1893.

H. C. HILL,
Conservator of Forest, Central Circle, N.-W. P. and Oudh.

FOREST DEPARTMENT, CENTRAL CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

COMMUNICATIONS AND BUILDINGS DURING 1892-93.

Division.	New work undertaken during the year.						Repairs executed during the year.						Remarks.
	Buildings.		Roads and paths.			Total expenditure on new work.	Buildings.		Roads and paths.				
	Description of building.	Expenditure incurred.	Road or path and object of the same.	Length of road or path.	Expenditure incurred.		Nature of repairs.	Expenditure incurred.	Nature of repairs.	Length repaired.	Expenditure incurred.	Total expenditure on repairs.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
		Rs.		Miles.	Rs.	Rs.		Rs.		Miles.	Rs.	Rs.	
Direction ..	*Nil.* ...	...	*Nil.* ...	...	...	...	Ordinary annual repairs of office building and out-houses.	239	*Nil.* ...	...	...	239	
Naini Tal .	Kalona rest-house ...	1,000 (part cost)	Inspection path along the ridge from Dedhura towards Ranibágh.	4	161	4,316	Alteration and repairs to Dalmoti rest-house.	430	Repair of Airadeo Majkhali cart road.	4	622	3,800	
	Seoni brewery house ...	1,200					Petty repairs to existing buildings.	512	Repair of Seoni cart road	2	101		
	Kitchen at Kalona ...	300	Inspection path along the ridge in Ninglat forests.	3	71		Enlarging office building	405	Ordinary repairs to existing roads and paths.	203	1,046		
	Charcoal godown at Rinni.	196					Ditto Chaubattia rest-house.	73					
	Forest guard's hut at Majkhali.	260	Road from Bajon to Tula Tok.	6	385		Enlarging three charcoal godowns at Ránikhet.	278	...	...	...		
	Forest guard's hut at Kathallekh.	88	Road from Tusari to Tit completed.	6	237		Enlarging forest guard's hut at Seoni.	89	...	...	...		
	Latrine at Deolikhet ...	11	Road from Kalona to cart road.	2	71		Enlarging forest guard's hut at Gailekh.	100	...	...	...		
	...	...	Path from Jabar to Lariakanta.	1	34		Enlarging out-house at Bellekh.	144	...	...	...		
	...	...	Survey of the proposed Dalmoti cart road.	...	64								
	...	..	Path along the ridge of Airadeo.	7	232								
	...	...	Cart road to Chaubattia Depôt.	...	6								
	Total ...	3,055	...	29	1,261	4,316	...	2,031	...	209	1,769	3,800	
Kumaun ...	Rest-house at Shiala ...	389	Tanakpur, Dharapani and Shiala road	7	393	3,890	Extension of chauki at Sadlimat.	431	Renewal of 8 bridges in Chaubhainsi.	...	258	12,199	
	Ditto Mathiabanj.	431					Extension of out-houses at Haldwáni.	169	Renewal of 7 bridges in Kalonia.	...	184		
	Ranger's quarters at Fatehpur.	677	Miuri-Tawagad 5′ wide Inspection path,	11	599		Roofing out-houses and bungalow at Dechauri.	326	Ordinary repairs of existing roads and paths.	548	8,741		
	Ranger's quarters at Jaunla Sál.	880	Shiuntra-Miuri 5′ wide Inspection path.	1	50		Roofing ranger's quarters at Dechuri.	600	...	...	...		
	Chauki at Jubileeganj completed.	31	5″ wide path to Mathiabanj bungalow.	...	24		Thatching bungalows ...	422	...	...	...		
	Chauki at Pilapani completed.	31	Chunakhan to Garapu 2′ wide path.	5	82		Repairs to revenue depôt at Haldwani.	80	...	...	...		
	Out-houses at Horai ...	108	4′ wide path Jaunla Sál beat.	3	24		Glass and paint ...	108	...	...	...		
	Ditto Shiuntra...	135	Path in Lower Nála ...	4	36		Ordinary repairs to existing buildings.	880	...	...	...		
	Total ...	2,682	...	31	1,208	3,890	...	3,016	...	548	9,183	12,199	

[Form No. 51.

FOREST DEPARTMENT, CENTRAL CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

COMMUNICATIONS AND BUILDINGS DURING 1892-93.—(*continued*).

Division.	New work undertaken during the year. Buildings. Description of building.	Expenditure incurred.	Road and paths. Road or path and object of the same.	Length of road or path.	Expenditure incurred.	Total expenditure on new work.	Repairs executed during the year. Buildings. Nature of repairs.	Expenditure incurred.	Roads and paths. Nature of repairs.	Length repaired.	Expenditure incurred.	Total expenditure on repairs.	Remarks.
1	2	3	4	5	6	7	8	9	10	11	12	13	14
		Rs.		Miles.	Rs.	Rs.		Rs.		Miles.	Rs.	Rs.	
Garhwál ...	Rest-house at Kanda ...	59 (part cost)	12′ wide inspection and export cart road Haldua to Jalaban.	5	293 (part cost)	7,069	Ceiling, new doors, &c., of Dhikhala bungalow.	244	Improvment of Magnukhal Banjade road.	1	62	16,077	
	Ditto Kalagarh,	320 (part cost)	8′ to 10′ wide inspection and export cart road Jalikhan to Magnukhal.	2	600		Ceiling Mohan bungalow.	189	Improvement of Kalagarh Boxar road.	4	3,177		
	Ditto Dhungalgarh,	750					Improving Jhirna bungalow.	58	Improvement of Taulia Jalikhan road.	2	950		
	Rest-house and out-houses at Jalikhan completed	123	8′ to 10′ wide inspection and export cart road Sultan to Dhungalgarh.	3	1,100		Pucka flooring of Amangarh bungalow verandah.	44	Improvement of Durgadeh Dhungalgarh road.	1	80		
	Ranger's quarters at Kanda.	123 (part cost)					Roofing, with slates kitchen at Bhalon.	53	Improvement of Amsot Terha road.	...	61		
	Rangers's quarters at Sidhkhal.	600	8′ to 10′ wide inspection and export cart road Sidhkal to Chimtakhal.	3	1,148		Improving Kushkundli inspection hut.	155	Improvement of Kaudru Khet road.	7	192		
	Foreset guard's hut at Shikaridera.	69 (part cost)					Thatching various buildings.	434	Improvement of Taulia Jalikhan road (work done in 1891-92, but paid for this year).	6	357		
	Forest guard's hut at Kumeria completed.	56	5′ wide inspection bridle path from near Jalikhan to Rámnagar-Ranikhet cart road.	4	228 (part cost)		Petty repairs to various existing buildings (including painting and purchase of materials).	1,618	Ordinary repairs to Bijnor district road.	40	895		
	Forest guard's hut at Chimtakhal.	66 (part cost)							Ordinary repairs to Haldua-Rámnagar road.	8	150		
	Forest guard's hut at Bhandarpani.	350							Ordinary reparis to all existing roads.	647	7,358		
	Out-houses at Kanda ...	417	...	...	...	...	...	...	...	...	...	...	
	Ditto Boxar ...	450	...	...	...	...	...	...	...	...	...	...	
	Kitchen at Kanda ...	250	...	...	...	...	...	...	...	...	...	...	
	Ditto Jhirna ...	67	...	...	...	...	...	...	...	...	...	...	
	Total ...	3,700	...	17	3,369	7,069	...	2,795	...	716	13,282	16,077	
	Rest-house including godown at Haldnparao completed.	714	4′ wide Inspection paths in Kohtri range.	10	96	2,360	Thatching office building at Naini Tal.	13	Ordinary repairs (cutting grass, filling in earth, &c.,) to 10′ to 15′ wide roads in Gohri range.	77	668		
	Rest-house including retaining wall at Lansdowne completed.	1,540	Widening to 5′ inspection path along West bank of Palain river from Kakrari towards Dhontial.	3	10		Petty repairs to Barhapura chauki.	1					
							Petty repairs to Kumaun rest-house.	4	Ordinary repairs (cutting grass, filling in earth, &c.,) 4′ to 8′ paths in Gohri range.	21	83		
							Special repairs to Chila rest-house.	183					
	...	...	...	...	...	...	Petty repairs to Shampur chauki.	15	Ordinary repairs (cutting grass, filling in earth, &c.,) 10′ to 15′ roads in Chandi range.	17	186		
	...	...	...	...	...	...	Ordinary repairs to Laldhang rest-house.	133					
	...	...	...	...	...	...	Petty repairs to Haldukhata rest-house.	5					

Ganges ...	...	...	...	...	...	...	Petty repairs to Kotedwar rest house.	9	Ordinary repairs (cutting grass, filling in earth, &c.,) 4′ to 8′ paths in Chandi range.	5	20		
	...	...	...	...	...	...	Petty repairs to Saneh rest-house.	19					
	...	...	...	...	...	...	Petty repairs to Koluchaor rest-house.	8	Ordinary repairs (cutting grass,, filling in earth, &c.,) 10′ to 15′ roads in Udepur range.	98	756		
	...	...	...	...	...	...	Petty repairs to ranger's quarters in Kohtri range.	11					
	...	...	...	...	...	...	Petty repairs to Morghati rest-house.	27	Ordinary repairs (cutting grass, filling in earth, &c.,) 4′ to 8′ paths in Udepur range.	22	102		
	...	...	...	...	...	...	Petty repairs to Hatikund rest-house.	12					
	...	...	...	...	...	...	Petty repairs to Pakhrao rest-house.	4					4,075
	...	...	...	...	...	...	...	...	Ordinary repairs (cutting grass, filling in earth, &c.,) 10′ to 15′ roads in Kohtri range.	50	541		
	...	...	...	...	...	...	...	...	Ordinary repairs (cutting grass, filling in earth, &c.,) 4′ to 8′ paths in Kohtri range.	58	237		
	...	...	...	...	...	...	...	...	Ordinary repairs (cutting grass, filling in earth, &c.,) 10′ to 15′ roads in Sona Nadi range.	45	310		
	...	...	...	...	...	...	...	...	Ordinary repairs (cutting grass, filling in earth, &c.,) 4′ to 8′ paths in Sona Nadi range.	32	134		
	...	...	...	...	...	...	...	...	Ordinary repairs (cutting grass, filling in earth, &c.,) 10′ to 15′ roads in Palain range.	17	327		
	...	...	...	...	...	...	...	...	Ordinary repairs (cutting grass, filling in earth, &c.,) 4′ to 8′ paths in Palain range.	57	267		
	Total ...	2,254	...	13	106	2,360	...	444	...	499	3,631	4,075	
Bundelkhand	Depôt at Jhánsi ...	200	Baroda-Bansi road ...	6	97	447	Repairs to chaukies in Mau, Garotha and Moth parganas.	25	Repairs to Gaunpura road.	2	14		
	...	...	Haranpur-Bijrotha road	3	41				Repairs to Thakurpura-Dhukwan road.	7	34		
	...	...	Lalaun Jakhora road ...	2	38		Repairs to Jhánsi depôt	5	Repairs to Dhukwan-Ghisoli road.	5	20		
	...	...	Bhenda-Ghati road ...	1	50		Ditto Dhukwan bungalow.	5	Repairs to Bajna-Sipri road.	7	59		762
	...	...	Rajauhas Ghati path ...	2	21		Repairs to Mahal at Kachneh.	25	Repairs to Babina Dhukwan road.	6	33		
	...	...	...	...	...	...	Repairs to Lalitpur chaukies.	50	Repairs to Thangana-Papra road.	5	50		
	...	...	...	...	...	...	Repairs to Lalitpur depôt.	6					

[Form No. 51.

FOREST DEPARTMENT, CENTRAL CIRCLE, NORTH WESTERN PROVINCES AND OUDH.

COMMUNICATIONS AND BUILDINGS DURING 1892-93—(*concluded*).

Division.	New work undertaken during the year.						Repairs executed during the year.						Remarks
	Buildings.		Roads and paths.			Total expenditure on new work.	Buildings.		Roads and paths.			Total Expenditure on repairs.	
	Description of building.	Expenditure incurred.	Road or path and object of the same.	Length of road or path.	Expenditure incurred.		Nature of repairs.	Expenditure incurred.	Nature of Repairs.	Length repaired.	Expenditure incurred.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14
		Rs.		Miles.	Rs.	Rs.		Rs.		Miles.	Rs.	Rs.	
Bundelkhand—(*contd.*)	...	...	...	...	...	...	Repairs to Deogarh and Morari bungalows.	10	Repairs to Papra-Bangawan road.	5	50	762	
	...	...	...	...	...	...	Repairs to Mehroni depôt.	3	Repairs to Patna Ghati road.	5	50		
	...	...	...	...	...	...	Repairs to Manikpur bungalow.	10	Repairs to Sukra Lakhanjhir road.	8	80		
	...	...	...	...	...	...	Repairs to Manikpur depôt house.	37	Repairs to Kulna road ..	4	55		
	...	...	...	...	...	...	Repairs to Kulna bungalow.	7	Repairs to Markundi-Chauri-Kalianpur road	15	62		
	...	...	...	...	...	...	...	...	Repairs to Manikpur Kalianpur road. / Repairs to Kalianpur—Bhenda road.	12	28		
	...	...	...	...	...	...	...	...	Repairs to Bahalpurwa Saranmaldar road.	6	23		
	...	...	...	...	...	...	...	...	Repairs to Ránipur Kalianpur road.	6	21		
	Total ...	200	...	14	247	447	...	183	...	93	579	762	
	GRAND TOTAL ...	11,891	...	104	6,191	18,082	...	8,708	...	2,065	28,444	37,152	
	Add—Erroneously charged to A VII—*b*.	...											
	Grass huts (proper heading A.II).	209											
	Compensation for land (proper heading A VIII—*b*.) ..	204											
	Total ...	12,304											

NAINI TAL,
Dated the 4th October 1893.

H. C. HILL,
Conservator of Forests, Central Circle.

[Form No. 52.

FOREST DEPARTMENT, CENTRAL CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

REGISTER OF BREACHES OF FOREST RULES DURING 1892-93

Forest Division.			Cases pending from 1891-92.	New cases of the year.					Total cases.	Disposed of during the year.						Cases pending at close of year.	Remarks.
				Injury to forest by fire.	Unauthorised felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.		Convictions.		Acquittals.		Total.			
										Cases.	Persons.	Cases.	Persons.	Cases.	Persons.		
Naini Tal	Naini Tal Sub-Division	A	...	5	3	...	...	8	8	5	9	3	4	8	13	...	
		B	...	9	258	1	...	268	268	268	364	...	...	268	364	...	
		C	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Ranikhet Ditto	A	...	3	14	...	...	17	17	17	35	...	...	17	35	...	
		B	...	11	63	12	...	86	86	86	129	...	...	86	129	...	
		C	...	...	1	...	...	...	...	...	...	...	...	...	...	...	Oak felling in Machor
	Total		...	28	338	13	...	379	379	376	537	3	4	379	541	...	
Kumaun		A	...	1	...	1	...	2	2	2	6	...	1	2	7	...	
		B	...	1	27	3	19	50	50	50	92	...	...	50	92	...	
		C	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Total		...	2	27	4	19	52	52	52	98	...	1	52	99	...	
Garhwal		A	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
		B	...	1	18	1	49	69	69	69	135	...	2	69	137	...	
		C	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Total		...	1	18	1	49	69	69	69	135	...	2	69	137	...	

FOREST DEPARTMENT, CENTRAL CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

REGISTER OF BREACHES OF FOREST RULES DURING 1892-93—(continued.)

Forest Division.		Cases pending from 1891-92.	New cases of the year.					Total cases.	Disposed of during the year.						Cases pending at close of year.	Remarks.
			Injury to forest by fire.	Unauthorised felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.		Conviction.		Acquittals.		Total.			
									Cases.	Persons.	Cases.	Persons.	Cases.	Persons.		
Ganges	A	...	...	3	...	...	3	3	3	4	...	...	3	4	...	
	B	15	3	34	...	48	85	100	87	116	8	13	95	129	5	
	C	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Total ...		15	3	37	...	48	88	103	90	120	8	13	98	133	5	
Bundelkhand	A	...	2	26	3	1	32	32	26	49	6	19	32	68	...	
	B	...	...	74	9	11	94	94	94	173	...	...	94	173	...	
	C	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Total ...		...	2	100	12	12	126	126	120	222	6	19	126	241	...	
GRAND TOTAL ...	A	...	11	46	4	1	62	62	53	103	9	24	62	127	...	
	B	15	25	474	26	127	652	667	654	1,009	8	15	662	1,024	5	
	C	...	...	1	...	...	...	...	...	...	...	...	...	...	...	

N.B.—A means cases taken into Court.

B means cases disposed of under section 67 of Indian Forest Act 1878.

C means undetected cases.

NAINI TAL;
Dated the 4th October 1893.

H. C. HILL,
Conservator of Forests, Central Circle.

[Form No. 53.

FOREST DEPARTMENT, CENTRAL CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

AREA OF FOREST TRACTS PROTECTED FROM FIRE DURING 1892-93.

Division.	Forest Tracts.	Year in which protection commenced.	Area protected during 1891-92.	Area attempted to be protected.	Failures.	Area actually protected.	Cost.	Remarks.
		Acres.	Acres.	Acres.	Acres.	Acres.	Rs.	
	I.—Areas under special protection.							
Naini Tal Sub-Division ...	Naini Tal protected forest	1876	18,701	19,442	...	19,442	271	
	Ditto reserve ditto	1886	15,485	14,520	...	14,520	207	
	Gagar Ningla reserve	1888	10,971	11,853	...	11,853	111	
	Dolmar-Mora reserve	1891	6,393	4,086	...	4,086	54	
	Ditto ditto	1892						
	Total ...	...	51,550	49,901	...	49,901	643	
Ránikhet Sub-Division ...	Ránikhet reserve	1874	4,917	4,931	8	5,068	132	
		1893		145				
	Padholi protected forest	1882	897	905	...	920	15	
		1893		15				
	Chaubattia ditto	1882	1,158	1,208	...	1,208	17	
	Karchuli ditto	1885	213	213	...	213	9	
	Ganiadeoli ditto	1878	889	889	...	889	18	
	Kathallekh ditto	1879	1,785	1,812	...	1,812	30	
	Siuni ditto	1880	4,088	4,432	...	4,432	46	
	Siun ditto	1885	700	700	...	700	6	
	Diwarson ditto	1888	1,510	1,519	...	1,519	8	
	Bellekh ditto	1888	341	942	...	942	2	
	Bhatronj ditto	1888	726	726	...	1,238	14	
		1893	...	512				
	Chiliannao ditto	1884	619	630	...	630	18	
	Airadeo ditto	1891	14,399	16,757	...	16,757	129	
	Siahidevi ditto	1888	579	1,502	...	2,064	10	
		1893	...	562				
	Total ...	...	32,821	38,400	8	38,392	454	
	Total Naini Tal Division ...	...	84,371	88,301	8	88,293	1,097	

[Form No. 53.

FOREST DEPARTMENT, CENTRAL CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

AREA OF FOREST TRACTS PROTECTED FROM FIRE DURING 1892-93—(*continued.*)

Division.	Forest Tracts.	Year in which protection commenced.	Area protected during 1891-92.	Area attempted to be protected.	Failures.	Area actually protected.	Cost.	Remarks.
			Acres.	Acres.	Acres.	Acres.	Rs.	
	Dechauri range.							
	Sanani block	1890	3,012	3,036	...	3,036		
	Kalianpur ditto	1891	2,613	2,710	...	2,710		
	Dhamora ditto	1891	1,310	1,310	...	1,310	350	
	Narui ditto	1893	...	3,771	..	3,771		
	Deigaon ditto	1893	...	3,574	...	3,574		
	Fatehpur range.							
	Bhakra block	1888	2,391	2,391	...	2,391	179	
	Moua ditto	1890	4,126	4,126	...	4,126		
	Chakkata range.							
	Herai	1876	3,681	4,290	...	4,290		
	Lakhman Mandi	1883	2,049	2,049	...	2,049		
	Jampokhra	1890	3,009	3,009	...	3,009	802	
	Patrani	1890	2,730	2,730	...	2,730		
	Asui	1890	2,415	2,415	...	2,415		
	Chaubhansi range.							
	Sunkheri	1889	1,015	1,015	...	1,015		
	Balot South	1889	1,094	1,094	...	1,094		
	Ditto North	1889	2,042	2,042	...	2,042		
	Silani	1882	1,763	1,763	...	1,763		
	Khonani South	1882	1,544	1,544	...	1,544		
	Ditto North.	1883	1,495	1,495	...	1,495		
	Rata Rau	1884	799	799	...	799		
	Bhalsani	1883	1,257	1,257	...	1,257		
	Aonla Khera North	1883	1,649	1,649	...	1,649		
	Ditto South	1883	1,475	1,475	...	1,475	2,294	
	Gaunia Rau	1887	1,982	1,982	...	1,982		
	Chila	1887	2,048	2,048	...	2,048		
	Khalgarh South	1887	2,306	2,306	...	2,306		
Kumaun	Ditto North	1887	2,793	2,793	...	2,793		
	Durgap pal	1888	2,043	2,043	...	2,043		

	Karakot	1890	3,444	3,444	...	3,444		
	Lower Nala	1893	...	1,130	...	1,130		
	Jaunla Sal	1876	7,558	7,592	...	7,592		
	Chungadh	1890	5,313	5,313	...	5,313		
	Hatgadh	1890 1892	3,888	3,888	...	3,888		
	Chamuadhunga	1890	4,935	4,935	...	4,935		
	Kalonia range.							
	Sarra North	1890	4,912	4,912	...	4,912		
	Ditto South	1889	2,814	2,814	...	2,814		
	Katal	1890	1,080	1,080	...	1,080		
	Kalonia West	1890	2,109	2,109	...	2,109	1,169	
	Ditto. East	1892	3,344	3,428	...	3,428		
	Dulagadh	1887	5,301	5,301	...	5,301		
	Birgot	1890	4,515	4,515	...	4,515		
	Bhargot	1890	6,078	6,090	...	6,090		
	Laibar	1890	8,556	8,683	...	8,683	1,169	
	Kumia	1890	5,796	5,796	...	5,796		
	Sudlimat	1890	4,305	4,305	...	4,305		
	Sarda Range.							
	Jaria Khal North	1890	1,215	1,215	...	1,215		
	Ditto South	1890	1,100	1,100	...	1,100		
	Khamari	1890	610	610	...	610		
	Khapkot	1890	433	433	...	433		
	Banbasa	1890	803	803	...	803		
	Naghan	1890	686	686	...	686	972	
	Dhangaona	1890	825	825	...	825		
	Chini	1892	3,086	7,005	...	7,005		
	Guliapani	1891	...	1,523	...	1,523		
	Kakrali	1891	672	672	...	672		
	Salani	1876	403	403	...	403		
	Bastia	1892	1,303	1,303	...	1,303		
	Total ...	...	* 137,725	152,629	...	1,52,629	5,766	* This area was shown last year as 135,114 acres. But a revision of area shows it to be 137,725 acres.
Garhwal	North Patli Dún (part of Patli Dún forest block No. II.)	1878	42,991	45,692	...	45,692	1,728	
	Ditto Mandhal block ...	1893	...	1,262	...	1,262	20	
	Ditto Naitha Dhargaon block ...	1893	...	3,732	...	3,732	157	
	South Patli Dún (part of patli Dún forest block II).	1873	24,588	24,588	...	24,588	1,845	
	Garhibulchand (part of forest block No. VII).	1877	8,996	8,996	...	8,996	844	
	Rehar (part of Rehar forest block No. VIII).	1881	11,531	11,531	...	11,531	918	
	Chilkia (part of chilkia forest block No. IV).	1874	50,565	50,620	...	50,620	1,729	
	Kotah (part of Kotah forest block No. V)...	1877	36,178	36,178	...	36,178	942	
	Kailkhur (part of Dabka forest block No. VI).	1888	4,104	4,104	...	4,104	49	
	Total ...	...	178,953	186,703	...	186,703	8,232	

[Form No. 53

FOREST DEPARTMENT, CENTRAL CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

AREA OF FOREST TRACTS PROTECTED FROM FIRE DURING 1892-93—(*continued.*)

Division.	Forest tracts.	Year in which protection commenced.	Area protected during 1891-92.	Area attempted to be protected.	Failures.	Area actually protected.	Cost.	Remarks.
			Acres.	Acres.	Acres.	Acres.	Rs.	
	Gori Range.							
	Kunaon	1887	8,131	7,931	8	7,923		
	Kauria Chaur	1881	2,169	2,169	...	2,169		
	Andher Majhera	1881	1,410	1,412	...	1,412		
	Dogadda	1881	5,004	2,724	...	2,724	609	
	Ditto	1893	...	838	...	838		
	Jogi Chaur	1881	6,923	671	...	671		
	Mandhal	1881	3,629	8,043	...	8,043		
	Udepur Range.							
	Rawasan	1890	3,254	1,291	...	1,291		
	Ditto	1892	...	291	...	291		
	Ditto	1893	...	1,302	...	1,302		
	Gwalgarh and Malan	1887	5,064	4,871	...	4,871	277	
	Sukrao	1882	1,112	1,112	...	1,112		
	Sigaddi	1893	...	3,517	...	3,517		
	Kohtri Range.							
GANGES ...	Dabina	1886	11,082	11,032	...	11,032		
	South Kohtri	1889	3,596	3,955	...	3,955		
	North Kohtri	1890	8,100	11,799	...	11,799	1,053	
	Nauri	1891	1,369	979	...	979		
	Cheula	1891	504	252	...	252		
	Sona nadi Range.							
	Shisham khata	1877	1,847	3,737	...	3,737	612	
	North Sona nadi	1889	12,920	14,007	32	13,975		
	Palain Range.							
	Mandalti		8,715	8,616	...	8,616		
	Kanur	1888	8,829	8,637	...	8,637	1,022	
	Tumaria		4,071	4,011	...	4,011		
	Kugad	1891	3,571	3,480	...	3,480		

	Hazara	1881 & 1889	...	2,342	...	2,342	236	
	Lani	1890 & 1892	7,331	9,503	...	9,503		
	Total ...	...	108,631	118,522	40	118,482	3,809	
	Jháysi range and pargana.							
	Dhukwan and Sukwan blocks	1874	2,239	2,239	...	2,239	264	
	Bajna block	1888	539	539	...	539		
	Lalitpur range.							
	Kachnoda forests	1888	190	190	...	237	466	
	Ditto	1893	...	47				
	Sairwas	1888	100	100	...	184		
	Ditto	1893	...	84				
	Deogarh	1875	1,000	1,000	19	981		
	Ditto	1892						
	Garauli	1875	751	751	...	751		
BUNDELKHAND ...	Talbehat pargana forests	1888	11,697	11,697	...	11,921		
	Ditto	1892						
	Ditto	1893	...	224				
	Bánda range.							
	Ránipur	1892	16,220	16,220	507	15,713	700	
	Chori Donda	1892	12,889	14,967	3,578	11,389		
	Kolhua	1892	6,182	6,182	5	6,177		
	Matdar	1892	...	6,729	94	6,635		
	Manikpur	1892	...	10,899	...	10,899		Last year under II—Areas protected by the ordinary establishment.
	Total ...	...	51,807	71,868	4,203	67,665	1,430	
	Total I ...	...	5,61,487	6,18,023	4,251	6,13,772	20,334	
	II—Areas protected by the ordinary establishment.							
NAINI TAL DIVISION—RANIKHET SUB-DIVISION.	Machor protected forests	1888	146	146	...	146	...	
	Total ...	...	146	146	...	146	...	
	Jháusi range.							
	Remaining forest blocks in Jhánsi pargana...	1888	12,279	12,434	1	12,445	...	
		1893	...	12				
BUNDELKHAND ...	Mau pargana forests	1888	6,865	6,925	...	6,925	...	
	Goratha ditto	1888	6,473	6,513	..	6,513	...	
	Meth ditto	1888	1,952	1,952	...	1,952	...	

[Form No 53.

FOREST DEPARTMENT, CENTRAL CIRCLE, NORTH WESTERN PROVINCES AND OUDH.

AREA OF FOREST TRACTS PROTECTED FROM FIRE DURING 1892-93—(*concluded*).

Division.	Forest Tracts.	Year in which protection commenced.	Area protected during 1891-92.	Area attempted to be protected.	Failures.	Area actually protected.	Cost.	Remarks.
	Lalitpur Range.	Acres.	Acres.	Acres.	Acres.	Acres.	Rs.	
BUNDELKHAND—(*contd.*)	Bansi forests	1888	4,647	4,667	1	5,534	...	
	Ditto	1893	...	868				
	Banpur forests	1888	4,745	4,532	...	4,532	...	
	Balalchat forests	1888	26,999	28,422	1,856	26,798	...	
	Ditto	1892						
	Ditto	1893	...	232				
	Mehroni forests	1892	1,283	1,283	...	1,620	...	
	Ditto	1893	...	337				
	Maraura forests	1892	38,735	36,668	1,782	34,886	...	
	Bánda range.							
	Matdar...	1892	5,129	...	...	...	...	See I—Areas under special protection.
	Manikpur	1892	10,899	...	...	...	...	
	Total ...	...	1,20,006	1,04,845	3,640	1,01,205	...	
	Total II ...	...	1,20,152	1,04,991	3,640	1,01,351	...	
	GRAND TOTAL ...	...	* 6,81,639	7,23,014	7,891	7,15,123	20,334	* See note against Kumaun Division which explains this increase in area.
	TOTAL FOR 1892 ...	...	5,44,897	7,02,880	21,241	6,81,639	23,608	

NAINI TAL;
Dated the 4th October 1893.

H. C. HILL,
Conservator of Forests, Central Circle, N.-W. P. and Oudh.

[Form No. 54.

FOREST DEPARTMENT, CENTRAL CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

AREA CLOSED AND OPEN TO GRAZING DURING 1892-83.

Division.	Area, in square miles.						Remarks.
	Closed to all animals.		Closed to browsers (camels, goats or sheep).		Open to all animals.	Total area.	
	Whole year.	Part of year.	Whole year.	Part of year.	Whole year.		
			Reserved Forests.				
Naini Tal { Naini Tal Sub-Division	5	...	...	...	43	48	
Naini Tal { Ranikhet do.	8	...	...	...	...	8	
Kumaon	202	127	...	...	145	474	
Garhwal	284	121	...	...	65	470	
Ganges	*188	...	...	...	244	432	* A part of this area should, it is believed be shown in column 3.
Bundelkhand ... { Jhánsi	3	...	45	...	...	48	
Bundelkhand ... { Lalitpur	5	...	133	...	...	138	
Bundelkhand ... { Bánda	...	...	86	...	...	86	
Total ...	695	248	264	...	497	1,704	
			Protected Forests.				
Naini Tal { Naini Tal Sub-Division	1	...	...	...	29	30	
Naini Tal { Ranikhet Do.	4	...	...	...	56	60	
Bundelkhand ... Lalitpur	...	...	4	...	...	4	
Total ...	5	...	4	...	85	94	
			Unclassed Forests.				
Bundelkhand ... Bánda	...	...	32	...	...	32	
Total ...	...	...	32	...	...	32	
GRAND TOTAL ...	700	248	300	...	582	1,830	

NAINI TAL;
Dated the 4th October 1893.

H. C. HILL,
Conservator of Forests, Central Circle, N.-W. P. and Oudh.

[From No. 55.

FOREST DEPARTMENT, CENTRAL CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

RETURN OF GRAZING IN THE STATE FORESTS DURING 1892-93.

Division.	Grazing on payment. At full rates.						Number of animals. At privileged rates.						
												Fees received.	
	Buffaloes.	Cows and Bullocks.	Goats and Sheep.	Camels.	Other animals.	Fees received.	Buffaloes.	Cows and Bullocks.	Goats and Sheep.	Camels.	Other animals.	Actual.	Value at full rates
1	2	3	4	5	6	7	8	9	10	11	12	13	14
						Rs.						Rs.	Rs.
Reserved Forests.													
Naini Tal	318	512	324	...	37	316	...	...	...	...	...	...	...
Kumaun	6,041	16,785	2,023	...	658	7,435	...	...	7,680	...	...	241	480
Garhwal	1,593	3,678	1,232	15	103	1,851	1,658	5,303	21,519	...	133	1,870	3,533
Ganges	5,313	15,008	12,813	252	70	6,921	46	291	16	...	...	125	151
Bundelkhand	8,046	62,225	...	...	...	4,895	...	...	...	...	...	...	...
Total, reserved forests ...	21,311	98,208	16,392	267	868	21,418	1,704	5,594	29,215	...	133	2,236	4,164
Protected Forests.													
Naini Tal	353	511	485	...	61	350	6	1,340	2,645	...	...	210	217
Bundelkhand	...	...	...	...	...	...	...	...	...	...	...	...	...
Total, protected forests ...	353	511	485	...	61	350	6	1,340	2,645	...	...	210	217
Unclassed forests.													
Bundelkhand	139	1,121	...	...	...	88	...	...	...	...	...	...	...
Total, unclassed forests ...	139	1,121	...	...	...	88	...	...	...	...	...	...	...
Abstract.													
Reserved forests	21,311	98,208	16,392	267	868	21,418	1,704	5,594	29,215	...	133	2,236	4,164
Protected "	353	511	485	...	61	350	6	1,304	2,645	...	...	210	217
Unclass "	139	1,121	...	...	...	88	...	...	...	...	...	...	...
GRAND TOTAL ...	21,803	99,840	16,877	267	929	21,856	1,710	6,934	31,860	...	133	2,446	4,381

Form No 55.

FOREST DEPARTMENT, CENTRAL CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

RETURN OF GRAZING IN THE STATE FORESTS DURING 1892-93 —(*concluded*).

Division.	Grazing free. By right under Settlement. Buffaloes.	Cows and Bullocks.	Goats and Sheep.	Camels.	Other animals.	Value of Fees at full rates.	Number of Animals. During pleasure of Government, or otherwise than under settlement. Buffaloes.	Cows and Bullocks.	Goats and Sheep.	Camels.	Other animals.	Value of Fees at full rates.	Total value of free grazing assessed in accordance with Fees at full rates.	GRAND TOTAL OF VALUE AT FULL RATES OF ALL GRAZINGS.
1	15	16	17	18	19	20	21	22	23	24	25	26	27	28
						Rs.								
Reserved Forests.														
Naini Tal ...	568	3,349	335	...	...	1,143	...	...	...	...	...	...	1,143	1,459
Kamaon ...	8,938	36,186	2,272	...	...	13,657	...	...	...	...	...	...	13,657	21,572
Garhwal ...	2,272	18,254	3,272	...	...	5,904	20	496	198	...	...	146	6,050	11,434
Ganges ...	315	11,522	4,970	...	15	3,352	26	887	305	...	4	255	3,607	10,679
Bundelkhand ...	472	1,416	...	...	...	147	...	...	...	...	...	...	147	5,042
Total, Reserved Forests ...	12,565	70,727	10,849	...	15	24,203	46	1,383	503	...	4	40	24,604	50,186
Protected Forests.														
Naini Tal ...	5,393	23,176	5,706	...	...	8,847	...	...	...	...	...	...	8,847	9,414
Bundelkhand ...	...	...	...	...	...	...	2,680	8,868	4,598	...	...	1,033	1,033	1,033
Total, Protected Forests ...	5,393	23,176	5,706	...	...	8,847	2,680	8,868	4,598	...	...	1,033	9,880	10,447
Unclassed Forests.														
Bundelkhand ...	...	...	...	...	...	...	...	1,111	...	...	...	69	69	157
Total, Unclassed Forests ...	...	...	...	...	...	...	...	1,111	...	...	...	69	69	157
Abstract.														
Reserved Forests ...	12,565	70,727	10,849	...	15	24,203	46	1,383	503	...	4	40	24,604	50,186
Protected " ...	5,393	23,176	5,706	...	...	8,847	2,680	8,868	4,598	...	...	1,033	9,880	10,447
Unclassed " ...	...	...	...	...	...	...	...	1,111	...	...	...	69	69	157
GRAND TOTAL ...	17,958	93,903	16,555	...	15	33,050	2,726	11,362	5,101	...	4	1,503	34,553	60,790

DATED NAINI TAL,
The 4th October 1893.

H. C. HILL,
Conservator of Forests, Central Circle, N.-W. P. and Oudh.

[Annual Form No. 56.

FOREST DEPARTMENT, CENTRAL CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

AREA OF PLANTATIONS, 1892-93.

Division.	Name of plantation.	Area in acres. On 1st July 1892.	Added during the year.	Excluded during the year.	Area on 30th June 1893.	Receipts of the year.	Charges of the year.	Remarks.
						Rs.	Rs.	
	Regular Plantations.							
Ránikhet Sub-Division.	Ránikhet nursery	50	...	...	50	1,652	1,398	
	Total, Regular Plantations ...	50	...	...	50	1,652	1,398	
	Cultural Operations.							
Naini Tal. Naini Tal Sub-Division.	Maulani nursery, Salampakha, China compartment, Robinia nursery.	...	...	...	...	...	50	
	Jabar	147	...	...	147	...	...	
	China	96	...	...	96	...	...	
	Kahla	39	...	...	39	...	...	
	Nairwari	43	...	...	43	...	...	
	Deopata	47	...	...	47	...	...	
	Kiladhunga...	25	...	...	25	...	...	
	Bhadli	33	...	...	33	...	...	
	Maulani	49	...	...	49	...	...	
	Chatrani	5	...	...	5	...	...	
	Robinia sowing experiment	...	...	...	...	...	138	
	TOTAL ...	484	...	...	484	...	188	

Naini Tal.	Ránikhet Sub-Division.	Dalmoti	1	...	...	1	...	5	Planting Australian Acacies in blanks.
		Jakhdeo (Upper)							
		Do. (Lower)							
		Garkhet	307	...	...	307	...	18	Planting Deodar and Cypress in blanks and under sowing chir with oak acorns.
		Jainoli							
		Dharmikhet							
		Ghingarukhal							
		Dwarson	6	...	...	6	...	6	Sowing oak acorns.
		Payaikhet (Dwarson)	1	...	...	1	...	3	Planting Robinia Pseudo.
		Kaligadh (Compartments 12 and 13) ...	...	61	...	61	...	69	Under sowing chir with acorns.
		Seoni nursery	...	...	...	...	...	42	
		TOTAL ...	375	61	...	436	...	143	
		TOTAL, NAINI TAL DIVISION ...	859	61	...	920	...	331	
Kumaun		Haldwani and Chorgalia	7	...	7	...	...	321	Gardens containing fruit trees of various kinds, up keep.
Garhwal ...		Chopra	40	...	...	40	...	...	
		Rámnagar, Mohan and Leti	...	...	...	...	79	274	Gardens.
		TOTAL ...	40	...	...	40	79	274	Up keep of gardens.
Ganges ...		Chila	1	...	1	...	...	...	
		Haldukhata	1	...	1	...	25	89	Gardens.
		Saneh	3	...	3	...	...	...	
		TOTAL ...	5	...	5	...	25	89	
Bundelkhand		Simroha	...	...	...	...	...	188	Experimental cultural operations of date palm.
		Total of cultural operations	911	61	12	960	104	1,203	
		Grand Total of plantations and cultural operations.	961	61	12	1,010	1,756	2,001	

Abstract of changes in area of plantations.

	Acres.	Acres.
Total of plantations of all classes at commencement of year		961
Add :—		
Additions made during the year	61	
Deduct areas struck off	12	
Net addition ...		49
Total area on 31st June 1893 ...		1,010

DATED NAINI TAL:
The 4th October 1893.

H. C. HILL,
Conservator of Forests, Central Circle, N.-W. P. and Oudh.

[Form No. 57.

FOREST DEPARTMENT, CENTRAL CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

OUTTURN (IN CUBIC FEET, SOLID) OF TIMBER AND FUEL DURING THE YEAR 1892-93, AND AGENCY OF EXPLOITATION.

Division.	Timber in the rough; logs.					Timber in the rough; poles.					Sawn or squared timber.					Miscellaneous.					Fuel.					Total.
	Government.	Purchasers.	Free grantees.	Right-holders.	Total.	Government.	Purchasers.	Free grantees.	Right-holders.	Total.	Government.	Purchasers.	Free grantees.	Right-holders.	Total.	Government.	Purchasers.	Free grantees.	Right-holders.	Total.	Government.	Purchasers.	Free grantees.	Right-holders.	Total.	Outturn.
Naini Tal.																										
II.—(d) Exploitation of major forest produce.											*I.—Reserved Forests.*															
(1) Clear or regeneration fellings.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
(2) Selection fellings ...	1,420	33,600	...	4,886	39,906	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	117,586	...	...	117,586	157,492
(3) Improvement fellings	...	...	...	...	...	1,484	...	...	1,908	3,392	...	...	...	...	...	...	...	...	...	...	...	70	...	...	70	3,462
(4) Coppice fellings ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
(5) Unregulated fellings, Green ...	...	3,900	...	...	3,900	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	16,276	12,552	...	...	28,828	32,728
Dry ...	...	47,216	...	...	47,216	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	30,246	32,880	...	...	63,126	1,10,342
Total ...	1,420	81,716	...	4,886	91,022	1,484	...	...	1,908	3,392	...	...	...	...	...	...	...	...	...	...	46,522	163,088	...	...	209,610	3,04,024
Kumaun.																										
II.—(d) Exploitation of major forest produce.											*I.—Reserved Forests.*															
(1) Clear or regeneration fellings.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	77,304
(2) Selection fellings ...	...	26,356	3,200	2,476	32,026	...	1,518	590	...	2,108	4,505	35,392	3,273	...	43,170	...	...	...	...	...	...	48,133	...	...	48,133	156,717
(3) Improvement fellings,	...	43,279	...	...	43,279	...	19,214	...	...	19,214	...	46,491	...	...	46,091	...	...	...	...	...	...	3,982	...	...	3,982	4,485
(4) Coppice fellings ...	...	503	...	...	503	...	...	...	...	...	...	...	...		...	...	...	...	...	...	...	15,986	...	...	15,986	32,233
(5) Unregulated fellings, Green ...	...	2,346	...	...	2,346	...	917	...	1,504	2,421	...	11,480	...	...	11,480	...	...	...	...	...	...	490,874	...	835,666	1,326,540	1,433,351
Dry ...	...	22,153	...	...	22,153	...	10,700	...	20,398	31,164	33	53,161	...	...	53,194	...	...	...	...	...	...	5,58,075	...	835,666	1,394,641	1,704,090
Total ...	...	94,931	3,200	2,476	100,607	...	32,415	590	21,902	54,907	4,538	146,121	3,273		153,925	...	...	...	...	...	...	5,58,075	...	835,666	1,394,641	1,704,090
II.—(d) Exploitation of major forest produce.											*I.—Reserved Forests.*															
(1) Clear or regeneration fellings.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	279,124
(2) Selection fellings ...	...	10,301	...	...	10,301	...	4,815	...	...	4,815	5,061	213,765	...	...	218,826	1,861	32,331	...	10,987	45,182	...	...	...	...	...	

Garhwál.	(3) Improvement fellings,	...	...	...	...	...	...	863	...	...	863	...	3,530	...	...	3,530	...	4,996	...	...	4,996	...	...	...	...	...	9,389
	(4) Coppice fellings ...	...	541	...	...	541	...	4,035	...	...	4,035	...	...	...	...	...	...	2,034	...	...	2,034	...	39,549	...	...	39,549	46,159
	(5) Unregulated fellings, Dry ...	...	3,014	...	...	3,014	...	81,989	...	...	81,989	...	5,392	...	...	5,392	...	11,004	...	230	11,234	...	157,593	...	378,855	536,448	638,077
	Total ...	...	13,856	...	...	13,856	...	91,702	...	...	91,702	5,061	222,687	...	.	227,748	1,864	50,365	...	11,217	63,446	...	197,142	...	378,855	575,997	972,749
	II.—(d) Exploitation of major forests produce.												*I.—Reserved Forests.*														
Ganges.	(1) Clear or regeneration, fellings ...	...	...	...	...	...	...	...	...	...	...	...	...	...	.	...	...	...	...	...	...	...	...	...	...	...	...
	(2) Selection fellings ...	1,713	...	4,292	4,010	10,015	...	...	...	...	...	...	51,234	...	...	51,234	...	...	...	...	...	...	...	...	...	...	61,249
	(3) Improvement fellings,	...	...	...	...	...	...	...	...	...	...	...	2,210	...	...	2,210	...	...	...	...	...	...	4,612	...	...	4,612	6,822
	(4) Coppice fellings ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(5) Unregulated fellings, Green ...	...	...	...	...	...	...	198	...	...	198	...	7,282	...	...	7,282	...	...	...	...	...	...	...	...	...	...	7,480
	Dry	...	4,877	...	...	4,877	...	786	...	...	786	...	88,380	...	..	88,380	...	1,116	...	...	1,116	...	236,584	...	160,069	396,653	491,812
	Total ...	1,713	4,877	4,292	4,010	14,892	...	984	...	...	984	...	149,106	...	...	149,106	...	1,116	...	...	1,116	...	241,196	...	160,069	4,01,265	567,363
	II.—(d) Exploitation of major forest produce.												*I.—Reserved Forests.*														
Bundelkhand.	(1) Clear or regeneration fellings ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(2) Selection fellings ...	...	32	...	...	32	11,525	26,054	111	1,677	39,367	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	39,399
	(3) Improvement fellings,	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	42,967	103,266	800	3,865	150,898	19,884	100,329	1,700	...	121,913	272,811
	(4) Coppice fellings ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(5) Unregulated fellings,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total ...	...	32	...	...	32	11,525	26,054	111	1,677	39,367	...	...	...	...	...	42,967	103,266	800	3,865	150,898	19,884	100,329	1,700	...	121,913	312,210
	Total, Reserved Forests...	3,133	1,98,412	7,492	11,372	220,409	13,009	151,155	701	25,487	190,352	9,599	517,917	3,273	.	530,739	44,831	154,747	800	15,082	215,460	66,406	1,260,730	1,700	1,374,590	2,703,426	3,860,436
	II.—(d) Exploitation of major forest produce.												*II.—Protected Forests.*														
Naini Tal.	(1) Clear or regeneration, fellings ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(2) Selection fellings ...	2,060	93,488	...	66,766	162,314	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	23,602	302,570	...	...	326,172	488,486
	(3) Improvement fellings,	...	...	...	...	...	6,502	1,170	...	66,544	74,216	...	...	...	...	...	...	...	...	...	...	672	8,954	...	...	9,626	83,842
	(4) Coppice fellings ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(5) Unregulated fellings, Green ...	...	7,780	...	...	7,780	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	43,478	6,662	...	...	50,140	57,920
	Dry	...	4,030	...	...	4,030	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1,23,870	75,190	...	23,000	222,060	226,090
	Total ...	2,060	105,298	...	66,766	171,124	6,502	1,170	...	66,544	74,216	...	...	...	...	...	...	...	...	...	...	191,622	393,376	...	23,000	6,07,689	856,338

[Form No. 57.

FOREST DEPARTMENT, CENTRAL CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

OUTTURN (IN CUBIC FEET, SOLID) OF TIMBER AND FUEL DURING THE YEAR 1892-93, AND AGENCY OF EXPLOITATION—(*continued*).

	Division.	Timber in the rough; logs.					Timber in the rough; poles.					Sawn or squared timber.					Miscellaneous.					Fuel.					Total.
		Government.	Purchasers.	Free grantees.	Right-holders.	Total.	Government.	Purchasers.	Free grantees.	Right-holders.	Total.	Government.	Purchasers.	Free grantees.	Right-holders.	Total.	Government.	Purchasers.	Free grantees.	Right-holders.	Total.	Government.	Purchasers.	Free grantees.	Right-holders.	Total.	Out-turn.
Bundelkhand.	*II.—(d) Exploitation of major forest produce.*											*II.—Protected Forests.*															
	(1) Clear or regeneration fellings.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(2) Selection fellings ...	...	33	...	...	33	...	4,708	50	...	4,758	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4,791
	(3) Improvement fellings,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	10,144	...	...	10,144	800	5,520	800	...	7,120	17,264
	(4) Coppice fellings ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(5) Unregulation fellings Dry.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total ...	...	33	...	...	33	...	4,708	50	...	4,758	...	...	...	...	...	...	10,144	...	...	10,144	800	5,520	800	...	7,120	22,055
	Total, Protected Forests,	2,060	105,331	...	66,766	174,157	6,502	5,878	50	66,544	78,974	...	...	...	...	...	...	10,144	...	...	10,144	192,422	398,896	800	23,000	615,118	878,393
Gangos.	*II.—(d) Exploitation of major forest produce.*											*III.—Unclassed Forests.*															
	(1) Clear or regeneration fellings.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(2) Selection fellings ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(3) Improvement fellings,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(4) Coppice fellings ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(5) Unregulated fellings Dry.	...	...	...	...	...	...	...	...	...	...	...	78,847	...	...	78,847	...	...	...	...	...	...	73,275	...	...	73,275	152,122
	Total ...	...	...	...	...	...	...	...	...	...	...	...	78,847	...	...	78,847	...	...	...	...	...	...	73,275	...	...	73,275	152,122
khand.	*II.—(d) Exploitation of major forest produce.*											*III.—Unclassed Forests.*															
	(1) Clear or regeneration fellings.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(2) Selection fellings ...	...	...	...	...	...	1,502	3,277	...	...	4,779	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4,779

Bundel

(3) Improvement fellings,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	475	...	...	475	...	3,147	...	...	3,147	3,622
(4) Coppice fellings ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
(5) Unregulated fellings,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	...	...	...	...	...	1,502	3,277	...	...	4,779	...	...	...	...	...	...	475	...	...	475	...	3,147	...	...	3,147	8,401
Total, Unclassed Forests,	...	...	...	...	...	1,502	3,277	...	...	4,779	...	78,847	...	...	78,847	...	475	...	...	475	...	76,422	...	...	76,422	160,523
ABSTRACT.																										
I.—Revised Forests.																										
(1) Clear or regeneration fellings.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
(2) Selection fellings ...	3,133	70,283	7,492	11,372	92,280	11,525	32,387	701	1,677	46,290	9,566	300,391	3,273	...	3,13,230	1,864	32,331	...	10,987	45,182	...	117,586	...	...	117,586	614,568
(3) Improvement fellings,	...	43,279	...	...	43,279	1,484	20,077	...	1,908	23,469	...	51,831	...	...	51,831	42,967	108,262	800	3,864	155,894	19,884	153,144	1,700	...	174,728	449,201
(4) Coppice fellings ...	...	1,044	...	...	1,044	...	4,035	...	...	4,035	...	...	...	...	...	...	2,034	...	...	2,034	...	43,531	...	...	43,531	50,644
(5) Unregulated fellings, Green ...	...	6,246	...	...	6,246	...	1,115	...	1,504	2,619	...	18,762	...	...	18,762	...	...	...	...	...	16,276	28,538	...	...	44,814	72,441
Dry	...	77,560	...	...	77,560	...	93,541	...	20,398	113,939	33	146,933	...	...	146,966	...	12,120	...	230	12,350	30,246	9,17,931	...	1,374,590	2,322,767	2,673,582
I.—Reserved Forests ...	3,133	1,98,412	7,492	11,372	220,409	13,009	151,155	701	25,487	190,352	9,599	517,917	3,273	..	530,789	44,831	154,747	800	15,082	215,460	66,406	1,260,730	1,700	1,374,590	2,703,426	3,860,436
II.—Protected Forests.																										
(1) Clear or regeneration fellings.	...	...	...	...	...	...	...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
(2) Selection fellings ...	2,000	93,521	...	66,766	162,347	...	4,708	50	...	4,758	...	...	...	..	...	...	...	...	...	...	23,602	302,570	...	...	326,172	493,277
(3) Improvement fellings,	...	...	...	...	...	6,502	1,170	...	66,544	74,216	...	...	...	..	...	...	10,144	...	...	10,144	1,472	14,474	800	...	16,746	101,106
(4) Coppice fellings ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
(5) Unregulated fellings, Green. ...	...	7,780	...	...	7,780	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	43,478	6,662	...	...	50,140	57,920
Dry	...	4,030	...	...	4,030	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	123,870	75,190	...	23,000	222,060	226,090
II.—Protected Forests ...	2,000	105,331	...	66,766	174,157	6,502	5,878	50	66,544	78,974	...	...	...	.	...	...	10,144	...	...	10,144	192,422	398,896	800	23,000	615,118	878,393
III.—Unclassed Forests.																										
(1) Clear or regeneration fellings.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
(2) Selection fellings ...	...	...	...	...	...	1,502	3,277	...	...	4,779	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4,779
(3) Improvement fellings,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	475	...	...	475	...	3,147	...	...	3,147	3,622
(4) Coppice fellings ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
(5) Unregulated fellings, Green ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Dry	..	...	...	...	...	...	...	...	...	...	...	78,847	...		78,847	...	...	...	...	...	...	73,275	...	...	73,275	152,122
Total ...	...	...	...	...	...	1,502	3,277	...	...	4,779	...	78,847	...	.	78,847	...	475	...	...	475	...	76,422	...	...	76,422	160,523
GRAND TOTAL ...	5,193	303,743	7,492	78,138	394,566	21,013	160,310	751	92,031	274,105	9,599	596,794	3,273	..	609,636	44,831	165,366	800	15,082	2,26,079	258,828	1,736,048	2,500	1,397,590	3,394,966	4,899,352

DATED NAINI TAL:
The 4th October, 1893.

H. C. HILL,
Conservator of Forests, Central Circle, N.-W. P. and Oudh.

[Form No. 58.

FOREST DEPARTMENT, CENTRAL CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

OUT-TURN OF MINOR FOREST PRODUCE DURING THE YEAR 1892-93.

Division.	Description of produce.	Produce removed or utilized.										Remarks.
		By Government agency.		By purchasers.		By free grants.		By Right-holders.		Total.		
		Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	
			Rs.		Rs.		Rs.		Rs.		Rs.	
					I.—Reserved Forests.							
Naini Tal ...	Bamboos ... ... Nos. ...	...	...	1,463	19	...	...	2,002	26	3,465	45	
	Grazing and fodder grass	...	...	...	2,611	...	...	...	1,143	...	3,754	
	Other minor produce	...	...	...	2,132	...	...	...	2	...	2,134	
	Total, Naini Tal ..	...	...	1,463	4,762	...	...	2,002	1,171	3,465	5,933	
Kumaun ...	Bamboos ... ... Nos. ...	2,380	11	1,441,500	6,620	...	...	36,870	233	1,480,750	6,864	
	Grazing and fodder grass	...	...	...	7,736	...	...	...	13,657	...	21,393	
	Other minor produce	...	353	...	42,994	...	110	...	554	...	44,011	
	Total, Kumaun ...	2,380	364	1,441,500	57,350	...	110	36,870	14,444	1,480,750	72,268	
Garhwál ...	Bamboos ... ... Nos. ...	1,000	6	4,340,165	26,406	...	...	53,960	408	3,495,125	26,820	
	Grazing and fodder grass	...	...	...	3,721	...	...	...	6,050	...	9,771	
	Other minor produce	...	...	...	10,571	...	...	...	not known	...	10,571	
	Total, Garhwál ...	1,000	6	4,340,165	40,698	...	...	53,960	6,458	4,395,125	47,162	
Ganges ...	Bamboos ... ... Nos. ...	...	...	12,856,380	107,457	...	...	4,120	21	12,860,500	107,478	
	Grazing and fodder grass	...	...	...	6,282	...	...	...	3,607	...	9,889	
	Other minor produce	...	...	...	6,478	...	...	...	230	...	6,708	
	Total, Ganges ...	...	...	12,856,380	120,217	...	...	4,120	3,858	1,28,60,500	124,075	

Bundelkhand ...	Bamboos	Nos.	...	1,39,598	7,387	251,713	2,090	...	...	320	3	391,631	9,480
	Grazing and fodder grass ...		...	...	...	...	10,730	not known		...	147	...	10,877
	Other minor produce		...	...	571	...	5,129	...	...	...	not known	...	5,700
	Total, Bundelkhand		...	139,598	7,958	251,713	17,949	...	...	320	150	391,631	26,057
	Total, Reserved Forests		...	142,978	8,328	18,891,221	240,976	...	110	97,272	26,081	10,131,471	275,495
						II.—Protected Forests.							
Naini Tal ...	Ringals	Nos.	...	...	...	8,400	17	...	...	121,059	245	129,459	262
	Grazing and fodder grass ...		...	...	...	...	823	...	...	...	8,847	...	9,670
	Other minor produce		...	...	...	...	789	...	...	...	79	...	868
	Total, Naini Tal		...	...	...	8,400	1,629	...	...	121,059	9,171	129,459	10,800
Bundelkhand ...	Bamboos		...	113,954	997	15,240	104	...	...	...	...	129,194	1,101
	Grazing and fodder grass ...		...	...	...	...	...	...	...	...	1,033	...	1,033
	Other minor produce		...	...	...	...	80	...	...	...	...	...	80
	Total, Bundelkhand		...	113,954	997	15,240	184	...	...	...	1,033	129,194	2,214
	Total, Protected Forests		...	113,954	997	23,640	1,813	...	...	121,059	10,204	258,653	13,014
						III.—Unclassed Forests.							
Ganges ...	Bamboos	Nos.	...	...	...	1,118,400	7,180	...	...	...	...	11,18,400	7,180
	Grazing and fodder grass ...		...	...	...	...	775	...	not known		...	...	775
	Other minor produce		...	...	...	...	4,037	...	Ditto.		...	...	4,037
	Total, Ganges		...	...	...	1,118,400	11,992	...	...	...	...	11,18,400	11,992
Bundelkhand ...	Bamboos	Nos.	...	49,032	490	17,375	122	...	...	...	...	66,407	612
	Grazing and fodder grass ...		...	...	...	...	50	not known	...	...	69	...	119
	Other minor produce		...	...	1	...	202	Ditto.	...	...	...	...	203
	Total, Bundelkhand		...	49,032	491	17,375	374	...	...	...	69	66,407	934
	Total, Unclassed Forests		...	49,032	491	11,35,775	12,366	...	...	...	69	1,184,807	12,926

[Form No. 58.

FOREST DEPARTMENT, CENTRAL CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

OUTTURN OF MINOR FOREST PRODUCE DURING THE YEAR 1892-93.

ABSTRACT (CLASS OF FOREST).

Division.	Description of produce.	Produce removed or utilized.										Remarks.
		By Government agency.		By purchasers.		By free grants.		By right-holders.		Total.		
		Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	
			Rs.		Rs.		Rs.		Rs.		Rs.	
				I.—Reserved Forests.								
	Bamboos ... ... Nos. ...	142,978	7,404	18,891,221	142,592	...	...	97,272	691	19,131,471	150,687	
	Grazing and fodder grass	...	...	...	31,080	...	...	...	24,604	...	55,684	
	Other minor produce	...	924	...	67,304	...	110	...	786	...	69,124	
	Total, Reserved Forests	...	8,328	...	240,976	...	110	...	26,081	...	275,495	
				II.—Protected Forests.								
	Bamboos and ringals ... ... Nos. ...	113,954	997	23,640	121	...	...	121,059	245	258,653	1,363	
	Grazing and fodder grass	...	...	...	823	...	...	...	9,880	...	10,703	
	Other minor produce	...	...		869	...	...	...	79	...	948	
	Total, Protected Forests	...	997	...	1,813	...	...	...	10,204	...	13,014	
				III.—Unclassed Forests.								
	Bamboos ... ... Nos. ...	49,052	490	1,135,775	7,302	...	...	...	...	1,184,807	7,792	
	Grazing and fodder grass	...	...	...	825	...	...	...	69	...	894	
	Other minor produce	...	1	...	4,239	...	...	...	...	...	4,240	
	Total, Un-classed Forests	...	491	...	12,366	...	...	...	69	...	12,926	
				Abstract (class of produce).								
	Bamboos and ringals ... ... Nos. ...	305,964	8,891	20,050,636	150,015	...	...	218,331	936	20,574,931	159,842	
	Grazing and fodder grass	...	...	...	32,728	...	...	...	34,553	...	67,281	
	Other minor produce	...	925	...	72,412	...	110	...	865	...	74,312	
	Grand Total	...	9,316	...	255,155	...	110	...	36,354	...	301,435	

DATED NAINI TAL:
The 4th October 1893.

H. C. HILL,
Conservator of Forests, Central Circle, N.-W. P. and Oudh.

[Annual Form No. 59.

FOREST DEPARTMENT, CENTRAL CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

ACCOUNT OF TIMBER AND OTHER PRODUCE CUT OR COLLECTED BY GOVERNMENT AGENCY AND BROUGHT TO SALE DEPÔTS, OR SOLD LOCALLY, DURING THE YEAR 1892-93.

Particulars.	Number or quantity.	Cubic feet.	Total of each head. Number or quantity.	Total of each head. Cubic feet.
Balance in hand at commencement of the year.				
BUNDELKHAND DIVISION.				
Miscellaneous ballis	2,467	1,434		
Kurias	5,025	...	7,492	1,434
Fire-wood ... ... Mds. ...	322	644		
Charcoal ... ... " ...	109	1,090	431	1,734
Bamboos ... ... Nos. ...	432,493	...	432,493	...
Grass ... ... Bundles ...	170,000	...	170,000	...
Received from the Forests in Depôts.				
Chir (Pinus longifolia) scantlings	Not known	3,180		
Ditto ditto poles	421	6,736		
Oak (Q. incana) ditto	25	150		
Miscellaneous ditto	275	1,100		
Sál (Shorea robusta) scantlings	Not known	5,799		
Haldu (Adina cordifolia) ditto	Do.	152		
Sál (Shorea robusta) ditto	270	3,029		
Miscellaneous ditto	267	2,296		
Ditto ballis	8,724	13,027		
Kiras	1,534	1,534		
Kurias	41,433	11,133	52,949	80,635
Fire-wood ... ... Mds. ...	122,714	245,428		
Charcoal ... ... " ...	1,332	13,320	124,046	258,748

Particulars.	Number or quantity.	Cubic feet.	Total of each head. Number or quantity.	Total of each head. Cubic feet.
Removed by purchasers from Depôts.				
Miscellaneous ballis	7,759	11,367		
Kiras	1,063	1,063		
Kurias	28,520	28,520	37,342	40,950
Fire-wood ... ... Mds. ...	121,304	242,608		
Charcoal ... ... " ...	742	7,420	122,046	250,028
Bamboos ... ... Nos. ...	570,792	...	570,792	...
Grass ... ... Bundles ...	812,500	...	812,500	...
Mahua ... ... Mds. ...	177	...		
Aonla ... ... " ...	1	...		
Achar ... ... " ...	3	...	181	...
Leather ... ... Nos. ...	16	...		
Horns ... ... " ...	2	...	18	...
Sold locally.				
Fire-wood ... ... Mds. ...	40	80	40	80
Catechu ... ... " ...	10	...	10	...
Struck off for various causes.				
Miscellaneous ballis	98	141		
Kiras	29	29	127	170
Fire-wood ... ... Mds. ...	247	494		
Charcoal ... ... " ...	26	260	273	754
Bamboos ... ... Nos. ...	62,549	...	62,549	...

[Annual Form No. 59.

FOREST DEPARTMENT, CENTRAL CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

ACCOUNT OF TIMBER AND OTHER PRODUCE CUT OR COLLECTED BY GOVERNMENT AGENCY AND BROUGHT TO SALE DEPÔTS, OR SOLD LOCALLY, DURING THE YEAR 1892-93.—(*concluded*).

Particulars.	Number or quantity.	Cubic feet.	Total of each head. Number or quantity.	Total of each head. Cubic feet.
Bamboos ... ... Nos. ...	305,964	...	305,964	...
Grass ... ... Bundles ...	695,000	...	695,000	...
Lime ... ... Mds. ...	1,456	...	1,456	...
Mahua ... ... „ ...	177	...		
Aonla ... ... „ ...	1	...		
Achar ... ... „ ...	3	...	181	...
Leather ... ... Nos. ...	16	...		
Horns ... ... „ ...	2	...	18	...
Received from the forests and sold locally.				
Fire-wood ... ... Mds. ...	40	80	40	80
Catechu ... ... „ ...	10	...	10	...
Cubic feet omitted in previous returns.				
In stock in hand ... Miscellaneous ballis	...	1,800		
In stock in hand ... Kurias	...	5,025	...	6,825

Particulars.	Number or quantity.	Cubic feet.	Total of each head. Number or quantity.	Total of each head. Cubic feet.
Used by Department.				
Chir (Pinus longifolia) scantlings	Not known	3,480		
Ditto (ditto) poles	421	6,736		
Oak (Q. incana) do.	25	150		
Miscellaneous do.	275	1,100		
Sil (Shorea robusta) scantlings	Not known	5,799		
Haldu (Adina cordifolia) ditto	Do.	452		
Sil (Shorea robusta) ditto	270	3,920		
Miscellaneous ditto	297	2,996		
Ditto ballis	42	60		
Kurias	14	14	1,314	24,716
Bamboos ... ... Nos. ..	5,955	...	5,955	...
Lime ... ... Mds. ...	1,456	...	1,456	...
Balance at close of the year.				
BUNDELKHAND DIVISION.				
Miscellaneous ballis	3,292	4,723		
Kiras	442	442		
Kurias	17,924	17,924	21,658	23,089
Fire-wood ... ... Mds. ...	1,485	2,970		
Charcoal ... ... „ ...	673	6,730	2,158	9,700
Bamboos ... ... Nos. ...	99,161	...	99,161	...
Grass ... ... Bundles ...	61,500	...	61,500	...

Grand Total ...	Timber ...	...	...	...	...	60,441	88,925
	Fire-wood ...	...	Mds.	...	123,076	246,152	
	Charcoal ...	...	"	...	1,441	14,410	124,517	260,562
	Bamboos ...	...	Nos.	...	...	...	738,457	...
	Grass ...	...	Bundles	...	...	...	874,000	...
	Catechu ...	...	Mds.	...	10	...	...	...
	Lime ...	...	"	...	1,456	...		
	Mahua ...	...	"	...	177	...		
	Aonla ...	...	"	...	1			
	Achar ...	...	"	...	3		1,647	...
	Leather ...	...	Nos.	...	16	...		
	Horns ...	...	"	...	2	...	18	...

Grand Total ...	Timber ...	...	...	...	...	60,441	88,925
	Firewood ...	Mds.	...	123,076	246,152		
	Charcoal ...	"	...	1,441	14,410	124,517	260,562
	Bamboos ...	Nos.	...	...	...	73,845	...
	Grass ...	Bundles	...	...	...	874,000	...
	Catechu ...	Mds.	...	10	...		
	Lime ...	"	...	1,456	...		
	Mahua ...	"	...	177	...		
	Aonla ...	"	...	1	...		
	Achar ...	"	...	3	...	1,647	...
	Leather ...	Nos.	...	16	...		
	Horns ...	"	...	2	...	18	...

Dated Naini Tal:
The 4th October 1893.

H. C. HILL,
Conservator of Forests, Central Circle, N.-W. P. and Oudh.

[Form No. 60A.

FOREST DEPARTMENT, CENTRAL CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

ABSTRACT SHOWING THE VALUE OF TIMBER AND OTHER PRODUCE AT SALE DEPÔTS FOR THE YEAR 1892-93.

Description of Timber and other produce.	On hand at commencement of the year.			On hand at close of the year.			Difference in value.		Remarks.
	No.	C. ft.	Value.	No.	C. ft.	Value.	In favor of the year.	Against the year.	
TIMBER.			Rs.			Rs.	Rs.	Rs.	
Sale Depôts.									
Miscellaneous ballis ...	1,744	* 2,235	903	1,917	2,593	844	...	59	* 1,800 C. ft. omitted last year.
Kiras	...	...	...	120	120	13	13	...	
Kurias	5,025	† 5,025	50	11,946	11,946	75	25	...	† 5,025 C. ft. omitted last year.
Total ...	6,769	7,260	953	13,983	14,659	952	38	59	
Forest Depôts.									
Miscellaneous ballis ...	723	1,029	181	1,375	2,130	375	194	...	
Kiras	...	...	...	322	322	30	30	...	
Kurias	...	...	...	5,978	5,978	30	30	...	
Total ...	723	1,029	181	7,675	8,430	435	254	...	
Total, Timber ...	7,492	8,289	1,134	21,658	23,089	1,367	292	59	
FIREWOOD, CHARCOAL AND BAMBOOS, &c.									
Sale Depôts.									
Firewood ... Mds.	322	614	54	740	1,480	148	94	...	
Charcoal ... "	109	1,090	54	22	220	11	...	43	
Bamboos ... "	192,569	...	2,887	45,015	...	900	...	1,987	
Total ...	...	1,734	2,995	...	1,700	1,059	94	2,030	
Forest Depôts.									
Firewood ... Mds.	...	...	...	745	1,490	149	149	...	
Charcoal ... "	...	...	...	651	6,510	326	326	...	
Bamboos ... "	239,921	...	2,399	54,146	...	812	...	1,587	
Grass bundles ...	179,000	...	89	61,500	...	25	...	64	
Total ...	...	...	2,488		8,000	1,312	475	1,651	
Total, Firewood, &c., ...	...	1,734	5,483	...	25,000	2,371	...	3,112	
GRAND TOTAL ...	...	...	6,617	...	...	3,738	...	2,879	
Total for 1891-92 ...	...	...	4,497	...	...	6,617	2,120	...	

DATED NAINI TAL:
The 4th October 1893.

H. C. HILL,
Conservator of Forests, Central Circle, N.-W. P. and Oudh.

[Form No. 60B.

FOREST DEPARTMENT, CENTRAL CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

ABSTRACT SHOWING THE VALUE OF LIVE AND DEAD STOCK FOR THE YEAR 1892-93.

Description of Live and Dead Stock.	On hand at commencement of the year.		On hand at close of the year.		Difference in value.		Remarks.
	No.	Value.	No.	Value.	In favor of the year.	Against the year.	
		Rs.		Rs.	Rs.	Rs.	
Live Stock							
Elephants	10	15,200	9	14,500	...	700	
Total, Live Stock ...	10	15,200	9	14,500	...	700	
Dead Stock.							
Buildings	205	1,28,135	227	1,42,430	14,295	...	
Wells	17	5,100	20	6,666	1,566	...	
Tools and plant ...	17,243	21,981	12,533	23,641	1,660	...	
Office rest-house furniture, including almirahs.	1,028	4,759	1,241	5,763	1,004	...	
Gun powder barrels ...	2	84	...	74	...	10	
Slow match barrels ...	1	84	1	84	...	...	
Miscellaneous ...	149	116	149	116	...	...	
Total, Dead Stock ...	18,645	1,60,259	14,172	1,78,774	18,525	10	
GRAND TOTAL ...	...	1,75,459	...	1,93,274	18,525	710	

Net difference in favour of the year, 17,815.

DATED NAINI TAL:
The 4th October 1893.

H. C. HILL,
Conservator of Forests, Central Circle, N.-W. P. and Oudh.

[Form No. 61.

FOREST DEPARTMENT, CENTRAL CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

SUMMARY OF REVENUE OF THE DIFFERENT DIVISIONS FOR THE FOREST YEAR, APRIL 1892 TO JUNE 1893.

Budget Heads.	Direction Division.	Naini Tal Division.	Kumaun Division.	Garhwal Division.	Ganges Division.	Bundelkhand Division.	Total.
RECEIPTS.							
I.—Timber and other produce removed from the Forests by Government Agency.							
a. Timber	...	...	...	...	...	1,968	1,968
b. Firewood and charcoal	...	53,510	...	...	...	765	54,275
c. Bamboos	...	...	...	...	...	8,874	8,874
d. Sandal-wood	...	...	...	...	...	...	...
e. Grass and other minor produce	...	...	216	...	...	572	788
	...	53,510	216	...	...	12,179	65,905
II.—Timber and other produce removed from the Forests by Consumers or Purchasers.							
a. Timber	...	12,596	1,22,562	2,12,652	66,163	2,477	4,16,450
b. Firewood and charcoal	...	10,567	8,884	3,992	2,937	2,484	28,864
c. Bamboos	...	36	6,620	26,406	1,14,637	2,316	1,50,015
d. Grazing and fodder Grass	...	3,434	7,736	3,721	7,057	10,780	32,728
e. Other minor produce	...	2,921	42,994	10,571	10,515	5,411	72,412
	...	29,554	1,88,796	2,57,342	2,01,309	23,468	7,00,469
III.—Drift and Waste Wood and Confiscated Forest Produce	...	...	79	658	88	7	832
V.—Miscellaneous.							
a. Fines and forfeitures	...	...	25	446	...	67	538
b. Refunds	2	...	116	385	24	1	528
c. Other sources	...	822	1,514	12,245	1,546	1,222	17,349
	2	822	1,655	13,076	1,570	1,290	18,415
Total Receipts	2	83,886	1,90,746	2,71,076	2,02,967	36,944	7,85,621

[Form No. 61.

FOREST DEPARTMENT, CENTRAL CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

SUMMARY OF EXPENDITURE OF THE DIFFERENT DIVISIONS FOR THE FOREST YEAR, APRIL 1892 TO JUNE 1893.

Budget Heads.	Direction Division.	Naini Tal Division.	Kumaun Divisision.	Garhwál Division.	Ganges Division.	Bundelkhand Division.	Total.
I.—Timber and other produce removed from the Forest by Government Agency.							
a. Timber	...	...	...	...	...	776	776
b. Firewood and charcoal	...	30,561	...	...	...	361	30,922
c. Bamboos	...	...	...	...	...	2,538	2,538
d. Sandal-wood	...	...	...	...	...	...	...
e. Grass and other minor produce	...	...	288	...	...	139	427
	...	30,561	288	...	..	3,814	34,663
II.—Timber and other produce removed from the Forests by Consumers or Purchasers.	...	2,323	10,507	9,908	10,546	1,999	35,283
III.—Drift and Waif Wood and Confiscated Forest Produce.							
IV.—Revenue from Forests not managed by Government.							
a. Duty on foreign timber and other forest produce	...	...	...	...	...	...	...
b. Revenue from shared and private forests	...	...	...	...	...	...	...
V.—Rent of leased Forests and payments to Share-holders in Forests managed by Government.	...	...	...	...	...	744	744
VI.—Live Stock, Stores, Tools and Plant.							
a. Purchase for cattle	...	...	...	...	...	...	...
b. Feed and keep of cattle	6	...	1,241	4,365	916	...	6,528
c. Purchase of stores, tools and plant	910	391	590	1,681	432	462	4,466
	916	391	1,831	6,046	1,348	462	10,994
VII.—Communications and Buildings							
a. Roads and bridge	...	3,030	10,391	16,651	3,737	826	34,635
b. Buildings	239	5,086	5,745	6,495	2,860	587	21,012
c. Other works	3	262	1 526	641	323	26	2,781
	242	8,378	17,662	23,787	6,920	1,439	58,428
VIII.—Organization, improvement and extension of Forests.							
a. Demarcation	1,355	226	735	689	807	1,222	5,034
b. Cost of settlements, compensation for land and rights	563	...	...	...	...	...	563
c. Surveys	105	299	737	196	110	...	1,447
d. Working plans	491	12	...	10	...	...	513
e. Sowing and planting	...	1,763	321	274	88	188	2,634
f. Protection from fire	...	3,180	9,829	10,635	5,829	1,430	30,903
g. Other works	...	705	583	988	1,560	65	3,901
	2,514	6,185	12,205	12,792	8,394	2,905	44,995
IX.—Miscellaneous.							
a. Refunds	...	...	...	...	128	58	186
b. Law charges	38	...	...	...	1,753	...	1,821
c. Other charges	91	198	145	248	109	15	806
	129	198	145	248	2,020	73	2,813
Total A.—Conservancy and Works	3,801	48,036	42,638	52,781	29,228	11,436	1,87,920

[Form No. 61.

FOREST DEPARTMENT, CENTRAL CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

SUMMARY OF EXPENDITURE OF THE DIFFERENT DIVISIONS FOR THE FOREST YEAR, APRIL 1892 TO JUNE 1893.

Budget Heads.	Direction Division.	Naini Tal Division.	Kumaun Division.	Garhwal Division.	Ganges Division.	Bundelkhand Division.	Total.
B.—ESTABLISHMENT.							
I—Salaries—							
a. Conservators	22,604	...	...	...	...	...	22,604
b. Superior officers	11,194	10,995	5,882	17,150	9,530	3,750	58,501
c. Subordinate forest and depôt establishments	2,653	5,415	9,227	10,385	8,904	4,999	41,583
d. Office establishments	6,341	1,398	2,592	2,522	2,614	1,444	16,911
e. Deputation and special allowances	1,220	...	136	138	560	...	2,054
	44,012	17,808	17,837	30,195	21,608	10,193	141,653
II.—Travelling Allowances—							
a. Conservators	1,915	...	...	...	...	...	1,915
b. Superior officers	1,981	1,110	1,469	2,719	2,074	1,016	10,369
c. Subordinate forest and depôt establishments	615	842	1,357	1,348	1,522	788	6,472
d. Office establishments	402	111	692	775	920	170	3,070
	4,913	2,063	2,518	4,842	4,516	1,974	21,826
III.—Contingencies—							
a. Stationery	53	68	253	219	153	88	834
b. Carriage of tents and records	1,158	401	527	810	873	390	4,159
c. Rents, rates and taxes	178	70	13	56	14	312	643
d. Pay of police guards	375	...	...	...	...	...	375
e. Official postage	522	96	154	100	128	268	1,268
f. Sundries	723	48	126	863	247	115	2,122
	3,009	683	1,073	2,048	1,415	1,173	9,401
Total B.—Establishments	51,934	20,554	22,428	37,085	27,539	13,340	1,72,880
Grand Total of Expenditure	55,735	68,590	65,066	89,866	56,767	24,776	3,60,800

Calcutta:
The 15th September 1893.

J. C. BOSE,
Asst. Comptroller-General, (Forests).

[Form No. 62.

FOREST DEPARTMENT, CENTRAL CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

ANNUAL ACCOUNT CURRENT FOR THE FOREST YEAR FROM APRIL 1892, TO JUNE 1893.

Dr.

	Rs. a. p.	Rs. a. p.
To cash balance		14,255 13 8
" VIII.—Assessed Tax—		
Income Tax—Deduction from salaries ...		2,437 12 8
" REVENUE AS PER ANNUAL SUMMARY, FORM No. 61 ...		7,85,621 4 9
" Service Funds—		
Civil Fund—Ordinary, Bengal		
" Additional, Bengal		
Military Fund - Bengal	303 12 0	
" " Madras		
"Orphan Fund—Bengal	262 8 0	
Uncovenanted Service Family Pension Fund—Bengal...	351 7 0	
General Family Pension Fund		
Hindu Family Annuity Fund		
		917 11 0
" Deposits		3,032 0 0
" Forest Cash Remittance—Local—		
Forest cheques drawn	3,48,663 9 11	
Inter-Divisional Transfers	134 13 0	
		3,48,798 6 11
" Advance recoverable		53,580 3 5
Suspense		40 11 0
" Account Current (other Governments)		
Remittances from Government of India	3,505 9 7	
Ditto Ditto Panjáb	151 2 8	
Ditto Ditto Bengal	31 3 2	
		3,687 15 5
" Inter Departmental Transfers—		
Public Works Department Ordinary Branches ...	414 10 0	
Military Department, Bengal	127 12 11	
Survey of India	139 8 0	
Civil Department		
Jail		
Mathemetical Instrument Department	224 0 0	
Miscellaneous	677 7 2	
		1,583 6 1
TOTAL ...		12,13,955 4 11

Cr.

	Rs. a. p.	Rs. a. p.
By Expenditure as per Annual Summary Form No. 61		3,60,800 0 2
" Deposits		4,040 0 0
" Forest Cash Remittances-Local — ...		
Remittances to Treasuries	7,26,000 8 2	
Inter-Divisional Transfers	89 13 0	
		7,26,090 5 2
" Advances Recoverable		62,876 2 8
" Suspense		
" Account Current (other Governments)— ...		
Remittances to the Government of India ...	251 15 3	
Ditto Ditto Punjáb ...	21 12 0	
		273 0 3
" Inter-Departmental Transfers—		
Public Works Department Ordinary Branches	4,847 1 6	
Military Department, Bengal	54,375 5 0	
Civil Department		
Miscellaneous	500 0 0	
		59,722 6 6
Cash Balance	...	1,431 3 2
TOTAL ...		12,13,955 4 11

CALCUTTA:
The 15th September 1893.

J. C. BOSE,
Asst. Comptroller-General, (Forests).

[Form No. 63.

FOREST DEPARTMENT, CENTRAL CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

REVENUE RECEIVED AND OUTSTANDINGS ON ACCOUNT OF REVENUE DURING THE FOREST YEAR, APRIL 1892 TO JUNE 1893.

Division.	Particulars.	Outstandings at commencement of year.	Value of sale and other revenue during year.	Total.	Amount realised during year.	Balance due to the Department at end of year.
		Rs. a. p.	Rs a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Direction ...	...	...	1 13 3	1 13 3	1 13 3	...
Naini Tal ...	...	502 3 0	90,051 0 6	90,553 3 6	83,885 12 1	6,667 7 5
Kumaun ...	...	...	1,90,746 5 0	1,90,746 5 0	1,90,746 5 0	...
Garhwál ...	...	...	2,71,076 0 11	2,71,076 0 11	2,71,076 0 11	...
Ganges ...	...	...	2,03,203 13 8	2,03,203 13 8	2,02,967 9 8	236 4 0
Bundelkhand ...	...	618 3 9	36,332 8 1	36,950 11 10	36,943 11 10	7 0 0
Total ...	...	1,120 6 9	7,91,411 9 5	7,92,532 0 2	7,85,621 4 9	6,910 11 5

DATED NAINI TAL:
The 4th October, 1893.

H. C. HILL,
Conservator of Forests, Central Circle, N.-W. P. and Oudh.

[Form No. 64.

FOREST DEPARTMENT, CENTRAL CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

OUTSTANDING AND LIABILITIES ON ACCOUNT OF CONTRACTORS FOR THE FOREST YEAR, APRIL 1892 TO JUNE 1893.

Division.	Department Debtor.			Department Creditor.			Balance due.	
	At commencement of year.	Recoveries in cash and value of supplies and work done during the year.	At close of year.	At commencement of year.	Payment made during year.	At close of year.	To Department (Outstandings.)	By Department (Liabilities).
1	2	3	4	5	6	7	9	8
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Direction ...	...	2,813 7 2	2,813 7 2	366 6 1	2,863 1 1	3,229 7 2	386 0 0	
Naini Tal ...	...	6,740 10 6	6,740 10 6	261 12 2	7,156 15 2	7,418 11 4	678 0 10	
Kumaun ...	...	11,317 1 11	11,317 1 11	1,177 14 11	14,143 0 6	15,320 15 5	4,003 13 6	
Garhwál ...	...	13,340 3 8	13,340 3 8	2,189 6 3	16,803 0 5	18,992 6 3	5,652 2 7	
Ganges ...	...	12,059 4 9	12,059 4 9	842 0 7	12,059 5 5	12,901 6 0	842 1 3	
Bundelkhand	...	7,279 7 5	7,279 7 5	403 4 7	9,850 12 6	10,254 1 1	2,974 9 8	
Total ...	...	53,580 3 5	53,580 3 5	5,240 12 7	62,876 2 8	68,116 15 3	14,536 11 10	

J. C. BOSE,
Asst. Comptroller-General, (Forests).

[Form No. 65.

FOREST DEPARTMENT, CENTRAL CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

FINANCIAL RESULTS OF THE FOREST YEAR, APRIL 1892 TO JUNE 1893.

Division.	Timber and other produce removed from the forests by Government agency.		Other revenue.		Formation, protection and improvement of forests.	Total.		Remarks.
	Receipts.	Charges.	Receipts.	Charges.	Charges.	Receipts.	Charges.	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
Direction	...	...	2	...	...	2	...	Direction Division charges amounting to Rs. 55,735 distributed amongst Divisions as follows :—
Naini Tal	53,510	42,365	30,376	13,934	17,991	83,886	74,290	Naini Tal ... ... Rs. 5,700.
Kumaun	216	288	1,90,530	38,039	39,739	1,90,746	78,066	Kumaun 13,000
Garhwál	...	...	2,71,076	52,990	55,876	2,71,076	1,08,866	Garhwál 19,000
Ganges	...	...	2,02,967	36,959	34,808	2,02,967	71,767	Ganges 15,000
Bundelkhand	12,179	5,631	24,765	9,727	12,453	36,944	27,811	Bundelkhand 3,035
Total ...	6,5905	48,284	7,19,716	1,51,649	1,60,867	7,85,621	3,00,800	55,735

DATED NAINI TAL:
The 4th October 1893.

H. C. HILL,
Conservator of Forests, Central Circle, N.-W. P. and Oudh.

[Form No. 61.

FOREST DEPARTMENT, CENTRAL CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

SUMMARY OF REVENUE OF THE DIFFERENT DIVISIONS DURING THE FINANCIAL YEAR 1892-93.

Budget Heads.	Direction.	Naini Tal Division.	Kumaun Division.	Garhwal Division.	Ganges Division.	Bundelkhand Division.	Total.
RECEIPTS.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
I.—Timber and other produce removed from the forests by Government Agency.							
a. Timber	...	...	...	...	...	1,265 11 7	1,265 11 7
b. Firewood and charcoal	...	38,889 10 11	...	...	...	720 12 6	39,610 7 5
c. Bamboos	...	...	...	...	...	7,782 15 9	7,782 15 9
d. Sandal wood	...	...	...	...	...	...	...
e. Grass and other minor produce	...	...	158 13 0	...	...	564 2 6	722 15 6
II.—Timber and other produce removed from the forests by consumers or purchasers.							
a. Timber	...	10,357 6 0	77,406 14 8	1,49,030 14 9	40,379 8 2	2,255 6 5	2,79,430 2 0
b. Firewood and charcoal	...	7,688 6 5	5,595 9 0	3,067 1 8	2,216 11 5	2,290 10 3	20,858 6 9
c. Bamboos	...	27 8 0	3,655 5 11	17,618 14 7	79,967 10 8	1,710 5 0	1,02,988 1 2
d. Grazing and fodder Grass	...	2,859 4 2	7,652 5 2	3,522 4 6	6,489 8 6	10,366 6 4	30,889 12 8
e. Other minor produce	...	1,959 6 5	34,369 3 8	9,201 12 2	8,011 6 6	4,167 0 9	57,748 13 6
III.—Drift and waif wood and Confiscated forest produce	...	...	75 12 0	516 0 0	5 10 6	6 12 3	604 2 9
IV.—Revenue from Forests not managed by Government.							
a. Duty on foreign timber and other forest produce							
b. Revenue from shared and private forests							
V.—Miscellaneous.							
a. Fines and forfeitures	...	...	25 0 0	66 8 0	...	67 2 0	158 10 0
b. Refunds	...	..	44 10 0	385 5 4	21 12 0	0 12 0	452 7 4
c. Other sources	...	730 12 0	1,268 12 1	11,697 10 4	1,394 5 0	1,040 3 11	16,131 11 4
Total, Receipts ...	...	62,552 5 11	1,30,252 10 6	1,95,196 7 4	1,38,486 8 9	32,246 5 3	5,58,644 5 9
EXPENDITURE.							
I.—Timber and other produce removed form the forests by Government Agency.							
a. Timber	...	...	...	...	...	690 3 4	690 3 4
b. Firewood and charcoal	...	23,549 2 11	...	...	...	281 14 2	23,831 1 1
c. Bamboos	...	...	...	...	...	2,269 15 8	2,269 15 8
d. Sandal-wood	...	...	...	...	...	...	...
e. Grass and other minor produce	...	...	243 15 0	...	...	139 5 7	383 4 7
II.—Timber and other produce removed from the forests by Consumers or purchasers ...	...	1,708 8 5	7,381 4 0	7,950 3 1	8,381 3 0	1,578 12 1	27,002 14 7
III.—Drift and waif wood and confiscated forest Produce	...	...	...	...	...	...	...
IV.—Revenue from forests not managed by Government.							
a. Duty on foreign timber and other forests produce	...	...	...	...	...	...	...
b. Revenue from shared and private forests	...	...	...	...	...	...	...
V.—Rent of leased Forests and payments to Shareholders in Forests managed by Government ...	...	...	...	...	...	562 4 3	562 4 3

VI.—Live Stock, Stores, Tools and Plant.							
a. Purchase of cattle ...	...	...	...	...	...	...	...
b. Feed and keep of cattle	...	1,038 5 9	3,311 3 6	770 10 2	...	5,189 3 5	
c. Purchase of stores, tools and plant	733 2 11	378 13 0	589 10 10	1,594 7 2	374 5 10	450 8 7	4,121 0 4
VII.—Communications and Buildings.							
a. Roads and bridges ...	...	2,528 5 4	7,090 1 1	15,497 3 3	2,829 15 7	825 5 6	29,670 14 9
b. Buildings	105 4 4	4,280 9 10	4,960 12 10	4,999 14 5	2,672 10 10	576 13 8	17,596 1 11
c. Other works	2 7 0	238 8 7	933 2 0	591 15 2	237 6 11	25 9 6	2,029 1 2
VIII.—Organization, improvement and extension of Forests.							
a. Demarcation	1,354 5 2	226 1 9	735 2 11	653 10 4	573 2 0	1,132 10 11	4,705 1 1
b. Cost of settlements, compensation for land and rights ...	336 12 6	...	...	...	...	...	336 12 6
c. Surveys	105 8 8	299 6 4	600 2 3	125 15 6	110 3 2	...	1,241 3 11
d. Working plans	149 1 1	12 6 7	...	...	...	...	161 7 8
e. Sowing and planting	...	1,430 0 7	275 10 2	214 11 6	67 8 0	174 0 0	2,161 14 3
f. Protection from fire	...	2,151 1 0	6,797 6 1	8,971 15 1	3,744 12 11	1,051 15 10	22,720 2 11
g. Other works	...	635 14 9	527 13 9	988 9 7	713 15 6	64 13 6	2,981 3 1
IX.—Miscellaneous.							
a. Refunds	...	...	...	...	113 7 2	58 5 0	171 12 2
b. Law charges	38 0 0	...	...	...	...	...	38 0 0
c. Other charges	89 8 0	196 13 0	137 0 0	235 15 3	18 6 6	14 6 6	692 1 3
TOTAL A.—CONSERVANCY AND WORKS ...	2,914 1 8	37,685 12 1	32,273 6 8	45,165 11 10	20,607 11 7	9,900 0 1	1,48,546 11 11
B.—ESTABLISHMENT.							
I.—Salaries.							
a. Conservators	18,560 2 10	...	...	...	...	...	18,560 2 10
b. Superior officers	8,543 10 5	9,044 13 9	4,832 2 0	3,500 0 0	7,130 13 11	3,000 0 0	46,051 8 1
c. Subordinate forest and depot establishments	1,768 12 8	4,455 6 9	7,430 2 1	8,155 15 0	7,061 2 9	4,019 0 9	32,888 8 0
d. Office establishments	5,092 4 7	1,080 0 0	1,976 0 0	1,920 13 4	1,981 0 0	1,102 10 3	13,152 12 2
e. Deputation and special allowances	757 4 1	...	129 7 9	65 3 0	560 0 0	...	1,511 14 10
II.—Travelling allowances.							
a. Conservators	1,410 14 9	...	...	...	...	...	1,410 14 9
b. Superior officers	1,268 0 0	875 4 0	1,100 10 8	1,889 8 0	1,093 2 0	758 6 6	7,494 15 2
c. Subordinate forest and depot establishments	381 3 6	705 6 0	1,064 4 11	1,015 3 11	1,196 6 10	590 12 0	4,953 5 2
d. Office establishments	310 6 9	86 2 0	498 10 8	525 13 4	662 8 8	116 13 0	2,200 6 5
III.—Contingencies.							
a. Stationery	30 11 6	67 5 0	214 14 3	185 2 0	149 8 3	52 3 0	699 12 0
b. Carriage of tents and records ...	764 0 0	312 15 5	383 6 1	556 2 0	678 11 11	287 15 0	2,983 2 5
c. Rents, rates and taxes	173 8 0	70 0 0	12 8 0	56 8 0	14 7 2	252 0 0	578 15 2
d. Pay of police guards	289 13 8	...	...	...	...	...	289 13 8
e. Official postage	343 13 0	86 9 0	96 8 6	99 11 6	102 8 0	204 2 0	933 4 0
f. Sundries	613 11 11	44 9 6	111 0 10	690 15 11	222 13 6	89 15 0	1,773 2 8
TOTAL B.—ESTABLISHMENTS ...	40,306 5 8	16,628 7 5	17,849 11 9	28,661 0 0	21,363 3 0	10,475 13 6	1,35,482 9 4
GRAND TOTAL OF EXPENDITURE ...	43,220 7 4	54,514 3 6	50,123 2 5	73,826 11 10	41,970 14 7	20,373 13 7	2,84,029 5 3

CALCUTTA:
The 22nd June 1893.

J. C. BOSE,
Assistant Comptroller-General, (Forests).

[Form No. 62.

FOREST DEPARTMENT, CENTRAL CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

ACCOUNT CURRENT FOR THE FINANCIAL YEAR 1892-93.

Dr.

	Rs. a. p.	Rs. a. p.
To Cash Balance	...	14,255 13 0
„ VIII.—Assessed Taxes—		
Income tax—Deductions from salaries...	...	1,033 10 10
„ Revenue as per Annual Summary, Form No. 58	...	5,58,644 5 9
„ Service Funds—		
Civil Fund—Ordinary, Bengal	...	...
„ Additional, Bengal	...	...
Military Fund—Bengal	...	243 0 0
„ „ Madras	...	...
„ Orphan Fund—Bengal	...	210 0 0
Uncovenanted Service Family Pension Fund—Bengal ...	...	178 4 0
General Family Pension Fund	...	...
Hindu Family Annuity Fund	...	...
„ Deposits	...	3,032 0 0
„ Forest Cash Remittances—Local—		
Forest cheques drawn	...	2,75,088 14 11
Inter-Divisional Transfers	...	134 13 0
„ Advances recoverable	...	46,537 6 9
„ Suspense	...	40 11 0
„ Account Current (other Governments)—		
Remittances from Government of India	...	2,910 8 6
Ditto ditto Punjab	...	151 2 8
Ditto ditto Bengal	...	31 3 2
„ Inter-Departmental Transfers—		
Public Works Department, Ordinary Branches	...	307 4 0
Military Department, Bengal	...	127 12 11
Civil Department—		
Survey of India	...	139 8 0
Mathematical Instrument Department...	...	224 0 0
Miscellaneous	...	393 0 2
Total ...	...	9,04,583 7 4

Cr.

	Rs. a. p.	Rs. a. p.
By Expenditure as per Annual Summary, Form No. 61	...	2,84,029 5 3
„ Deposits	...	1,975 0 0
„ Forest Cash remittances—Local—		
Remittances to Treasuries	...	5,14,565 3 8
Inter-Divisional Transfers	...	89 13 0
„ Advances Recoverable	...	49,409 9 5
„ Suspense	...	...
„ Account Current (other Governments)—		
Remittances to the Government of India	...	250 0 0
Ditto ditto Punjab	...	21 12 0
„ Inter-Departmental Transfers—		
Public Works Department, Ordinary Branches	...	4,010 15 0
Military Department, Bengal	...	39,754 10 11
Civil Department		
Miscellaneous...	...	500 0 0
„ Cash Balance	...	9,977 2 1
Total ...	...	9,04,583 7 4

CALCUTTA:
The 22nd June 1893.

J. C. BOSE,
Assistant Comptroller-General, (Forests)

[Form No. 63.

FOREST DEPARTMENT, CENTRAL, CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

REVENUE RECEIVED AND OUTSTANDINGS ON ACCOUNT OF REVENUE DURING THE FINANCIAL YEAR 1892-93.

Division.	Particulars.	Outstandings at commencement of year.	Value of sales and other revenue during year.	Total.	Amount realised during year.	Balance due to the Department at end of year.	Remarks.
1	2	3	4	5	6	7	8
		Rs. a. p	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
Direction	...	...	...	...	...	...	
Naini Tal	...	502 3 0	64,298 8 8	64,800 11 8	62,552 5 11	2,248 5 9	
Kumaun	...	...	1,30,252 10 6	1,30,252 10 6	1,30,252 10 6	...	
Garhwál	...	...	1,95,106 7 4	1,95,106 7 4	1,95,106 7 4	...	
Ganges	...	...	1,39,016 0 9	1,39,016 0 9	1,38,486 8 9	529 8 0	
Bundelkland	...	618 3 9	31,651 1 6	32,269 5 3	32,246 5 3	23 0 0	
Total ...	...	1,120 6 9	5,60,324 12 9	5,61,445 3 6	5,58,644 5 9	2,800 13 9	

DATED NAINI TAL:
The 4th October 1893.

H. C. HILL,
Conservator of Forests, Central Circle, N.-W. P. and Oudh.

[Form No. 64.

FOREST DEPARTMENT, CENTRAL CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

OUTSTANDINGS AND LIABILITIES ON ACCOUNT OF CONTRACTORS AND DISBURSERS FOR THE FINANCIAL YEAR 1892-93.

Division.	Department Debtor.			Department Creditor.			Balance Due.		Remarks.
	At commencement of year.	Recoveries in cash and value of supplies and work done during the year.	At close of year.	At commencement of year.	Payments made during year.	At close of year.	To Department (Outstanding).	By Department (Liabilities).	
	Rs. a. p	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
Direction	...	2,431 14 10	2,431 14 10	366 6 1	2,663 6 3	3,029 12 4	597 13 6	...	
Naini Tal	...	5,225 12 0	5,225 12 0	261 12 2	5,556 15 2	5,818 11 4	592 15 4	...	
Kumaun	...	10,427 1 10	10,427 1 10	1,177 14 11	10,393 0 6	11,570 15 5	1,143 13 7	...	
Garhwál	...	11,787 4 8	11,787 4 8	2,189 6 3	11,005 7 9	13,194 14 0	1,407 9 4	...	
Ganges	...	10,211 15 0	10,211 15 0	842 0 7	10,633 15 3	11,475 15 10	1,264 0 10	...	
Bundelkhand	...	6,453 6 5	6,453 6 5	493 4 7	9,156 12 6	9,560 1 1	3,106 10 8	...	
Total ...	...	46,537 6 9	46,537 6 9	5,240 12 7	49,409 9 5	54,650 6 0	8,112 15 3	...	

DATED CALCUTTA:
The 22nd June 1893.

J. C. BOSE,
Asst. Comptroller-General (Forests).

[Form No. 65.

FOREST DEPARTMENT, CENTRAL CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

FINANCIAL RESULTS OF THE FINANCIAL YEAR 1892-93.

Division.	Timber and other produce removed from the forests by Government Agency.		Other revenue.		Formation, protection and improvement of forests.	Total.		Remarks.
	Receipts.	Charges.	Receipts.	Charges.	Charges.	Receipts.	Charges.	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
Direction	...	...	...	...	...	...	...	Direction Division charges amounting to Rs. 43,220 distributed amongst Divisions as follows :—
Naini Tal	38,890	33,329	23,662	11,300	14,565	62,552	59,214	Naini Tal ... ... Rs. 4,700
Kumaun	159	244	1,30,094	29,163	30,716	1,30,253	60,123	Kumaun 10,000
Garhwál	...	...	1,05,106	42,895	45,932	1,05,106	88,827	Garhwál 15,000
Ganges	...	...	1,38,487	28,071	24,000	1,38,487	52,071	Ganges 11,000
Bundelkhand	10,334	4,883	21,912	7,830	10,181	32,246	22,894	Bundelkhand 2,520
								Total ... 43,220
Total ...	49,383	38,456	5,09,261	1,19,259	1,26,314	5,58,644	2,84,029	

Dated Naini Tal:
The 4th October 1893.

C. H. HILL,
Conservator of Forests, Central Circle, N.-W. P. and Oudh.

APPENDIX A.

[Para. 27.

FOREST DEPARTMENT, CENTRAL CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

ABSTRACT RECORD OF THE GROWTH OF SAL IN SPECIMEN PLOTS IN THE SUB-HIMALAYAN FORESTS.

Year.	Kumaun Forest Division, plots and year of first observation.						Garhwál Forest Division, plots and year of first observation.								Ganges Forest Division, plots and year of first observation.			
	Lakhman Mandí, 1881-85.		Suman Thapla, 1884-85.		North Khonani, 1887-88.	Salani, 1887-88.	Amtarola, 1884-85.		Bani Nagal, 1887-88.		Dhikala, 1887-88.		Domunda, 1887-88.		Andher Majhera, 1889-90.		Chaukham, 1889-90.	
	Thinned area.	Un-thinned area.	Thinned area.	Un-thinned area.	Unthinned area.	Unthinned area.	Thinned area.	Un-thinned area.	Thinned area.	Un-thinned area.	Thinned area.	Un-thinned area.	Thinned area.	Un-thinned area.	Thinned area.	Un-thinned area.	Thinned area.	Un-thinned area.
	Acres and number of trees.																	
	2-114	½-65	2-115	½-55	1-74	1-50	2-113	½-65	2-131	½-77	2-156	½-189	2-157	½-157	2-180	½-95	2-220	½-100
	Average annual increase in girth per tree in inches.																	
Average number of trees per acre ...	57	130	57½	110	74	50	56½	130	65½	154	78	378	78½	314	90	190	114½	200
1884-85	·83	·42	·61	·34	...	...	·78	·37	...	...	...	...	...	...	...	...	...	...
1885-86	1·08	·45	·71	·41	...	...	·98	·35	...	...	...	...	...	...	...	...	...	...
1886-87	·68	·28	·43	·28	...	...	·54	·38	...	...	...	...	...	...	...	...	...	...
1887-88	·91	·61	·84	·61	·47	·24	·90	·20	·90	·40	·80	·50	·60	·50	...	...	...	...
1888-89	·85	·67	·81	·35	*·05	*·02	1·03	·67	1·15	·72	1·33	·52	·90	·50	...	...	...	...
1889-90	·94	·23	·71	·33	·61	·23	·54	·18	1·07	·79	1·24	·74	·78	·29	·59	·47	·59	·29
1890-91	·55	·13	·49	·14	·19	·10	·73	·41	·96	·35	1·20	·60	·97	·54	·50	·59	·62	·25
1891-92	·66	...	·67	·28	·72	·18	·84	·35	1·13	·61	1·19	·49	·89	·18	·59	·52	·62	·51
1892-93	·70	·35	·56	·36	·51	·28	·81	·50	·96	·48	1·35	·75	1·06	·39	·65	·26	·35	·21
Average increase in girth per tree per annum, from yearly ascertained increase.	·80	·35	·65	·34	·41	·17	·79	·38	·98	·56	1·18	·60	·87	·40	·58	·46	·54	·31
Average increase in girth per tree per annum, deduced from measurements in first year of observation and those made in 1892-93.	·77	·30	·63	·37	·39	·17	·65	*·33	·94	·56	1·13	·49	·74	·25	...	...	...	...
Number of years or measurements on which based.	9	9	9	9	6	6	9	9	6	6	6	6	6	6	4	4	4	4
Mean annual increment in sectional areas in square feet per acre submitted in justification of the conclusions reported in para. 43 of Annual Report, 1891-92.	1·884	2·023	1·658	1·448	...	...	2·050	2·435	2·170	2·092	2·247	3·021	1·546	2·134	1·672	2·963	1·972	2·537

* Decrease.

DATED NAINI TAL :
The 4th October 1893.

H. C. HILL,
Conservator of Forests, Central Circle, N.-W. P. and Oudh.

APPENDIX B.

[Para. 32.

Forest Department, Central Circle, North-Western Provinces and Oudh.

LIST OF BUILDINGS OF WHICH THE COST EXCEEDS Rs. 200.

Division.		No.	Name of building.	Station or site.	Remarks.
			(a) On which no rent is paid.		
DIRECTION.		1	FOREST OFFICE.—	Naini Tal ...	This building also accommodates the Kumaun and Garhwál offices.
NAINI TAL ...	NAINI TAL SUB-DIVISION.	1	Forest office	Ditto.	
		2	Rest house	Kilberry.	
		3	Ditto	Ranche.	
		4	Ditto	Ninglat.	
		5	Ditto	Jhaludeo.	
		6	Ditto	Kolona.	
		7	Forester's quarters	Naini Tal.	
		8	Charcoal godown	Ditto.	
	RANIKHET SUB-DIVISION.	9	Office	Chaubattia.	
		10	Rest-house	Ditto.	
		11	Ditto	Dalmoti.	
		12	Ditto	Bellekh.	
		13	Ditto	Seoni.	
		14	Ranger's quarters	Chaubattia.	
		15	Forester's or Forest guard's quarters ...	Deolikhet.	
		16	Forester's quarters	Gailekh.	
		17	Ditto	Seoni.	
		18	Forest guard's quarters	Majkhali.	
KUMAUN ...		1	Forest office	Haldwani ...	Part house and office. Conservator's office during winter.
		2	Ditto	Ditto.	
		3	Rest-house	Dechauri.	
		4	Ditto	Chorgalia.	
		5	Ditto	Horai.	
		6	Ditto	Aonlakhera.	
		7	Ditto	Dhanaurchaor.	
		8	Ditto	Dandakathauti.	
		9	Ditto	Shiala.	
		10	Ditto	Mathiabanj.	
		11	Ditto	Kaladeo.	
		12	Ditto	Samapani.	
		13	Ditto	Jaunla Sál.	
		14	Ditto	Shiuntra.	
		15	Ranger's quarters	Dechauri.	
		16	Ditto	Fatehpur.	
		17	Ditto	Haldwani.	
		18	Ditto	Chorgalia.	
		19	Ditto	Jaunla Sál.	
		20	Ditto	Aonlakhera.	
		21	Forest guard's quarters	Jubileeganj.	
		22	Ditto	Pilapani.	
		23	Ditto	Sarkhet.	
		24	Ditto	Dholpokhra.	
		25	Ditto	Selakhal.	
		26	Ditto	Kholgarh.	
		27	Revenue depôt	Chandani.	
		28	Ditto	Chunakhan.	
		29	Ditto	Fatehpur.	
		30	Ditto	Haldwani.	
		31	Ditto	Horai.	
		32	Ditto	Chorgalia.	
		33	Ditto	Ransali.	
		34	Ditto	Sudlimat.	
		35	Ditto	Kilpura.	
		36	Ditto	Garapu.	
		37	Ditto	Lalkua.	
		38	Ditto	Tanakpur.	
		39	Store-house	Chorgalia.	
GARHWÁL ...		1	Forest office and store room	Rámnagar.	
		2	Elephant shed	Ditto.	
		3	Ditto	Jhirna.	
		4	Rest-house	Dhikala.	
		5	Ditto	Boxar.	
		6	Ditto	Kalagarh.	
		7	Ditto	Jhirna.	
		8	Ditto	Amangarh.	
		9	Ditto	Ma'dhan.	
		10	Ditto	Dhela.	
		11	Ditto	Rámnagar.	
		12	Ditto	Bijrani.	

APPENDIX B.

[Para 32.

Forest Department, Circle, North-Western Provinces and Oudh.

LIST OF BUILDINGS OF WHICH THE COST EXCEEDS Rs. 200.

Division.	No.	Name of building.	Station or site.	Remarks.
		(a) On which no rent is paid.—(continued).		
GARHWÁL—(*concld.*),	13	Rest-house	Mohan.	
	14	Ditto	Gairal.	
	15	Ditto	Garjia.	
	16	Ditto	Jalikhan.	
	17	Ditto	Dhungalgarh.	
	18	Ditto	Bhalon.	
	19	Inspection hut	Kushkundli.	
	20	Ranger's quarters	Sidhkhal.	
	21	Forester's quarters	Dhikala.	
	22	„ and Revenue depôt	Amangarh.	
	23	„ Ditto	Rámnagar.	
	24	Forester's quarters	Bijrani.	
	25	Ditto	Mohan.	
	26	Forest guard's quarters	Magunkhal.	
	27	Ditto	Tumaria.	
	28	Ditto	Boxar.	
	29	Ditto	Gonjpani.	
	30	Ditto	Jammagwar.	
	31	Ditto	Khinanoli.	
	32	Ditto	Sarapduli.	
	33	Ditto	Melani.	
	34	Ditto	Chaknakel.	
	35	Ditto	Sultánchaor.	
	36	Ditto	Kumeria.	
	37	Revenue depôt	Kalagarh.	
	38	Ditto	Jhirna.	
	39	Ditto	Patrampur.	
	40	Ditto	Haldua.	
	41	Ditto	Laldhang.	
	42	Ditto	Dhela.	
	43	Ditto	Rámnagar.	
	44	Ditto	Andauda.	
	45	Revenue check depôt	Jalalau.	
GANGES ...	1	Forest office	Kotedwar.	
	2	Rest-house	Kumaun.	
	3	Ditto	Chila.	
	4	Ditto	Laldhang.	
	5	Ditto	Haldukhata.	
	6	Ditto	Kotedwar.	
	7	Ditto	Sanch.	
	8	Ditto	Kolichaor.	
	9	Ditto	Chonkhamb.	
	10	Ditto	Hathikund.	
	11	Ditto	Morghatti.	
	12	Ditto	Pakhrao.	
	13	Ditto	Halduparao.	
	14	Ranger's quarters	Chila.	
	15	Ditto	Sanch.	
	16	Revenue depôt	Laldhang.	
	17	Ditto	Shampur.	
BUNDELKHAND ...	1	Rest-house	Dhukwan.	
	2	Ditto	Deogarh.	
	3	Ditto	Morari.	
	4	Ditto	Manikpur.	
	5	Ditto	Kulua.	
		(b). On which rent is paid.		
GANGES ...	1	Forest House	Lansdowne.	

DATED NAINI TAL:
The 4th October 1853.

H. C. HILL,
Conservator of Forests, Central Circle, N.-W. P. and Oudh.

APPENDIX C.

Para. 28.

Statement of Un-executed Works in Plans of Operations for 1892-93.

Works prescribed not done.	Remarks.
Naini Tal Division.	
Buildings.	
Commissariat sheds at Naini Tal, Ránikhet and Chaubattia.	Delayed owing to delay on the part of the Commissariat Department in ratifying the new scheme for supply of fire-wood—will be done in 1893-94.
Kumaun Division.	
Roads.	
The Chuna Khan,—Bareni cart road	Partly done—will be finished in 1893-94.
Buildings.	
Sudlimat chauki	Ditto ditto.
Rangers quarters at Fatehpur	Ditto ditto.
Garhwal Division.	
Roads.	
Mandal Valley road	Postponed for further consideration in 1893-94.
Haldua Jalaban road	Partly done, but owing to want of funds not completed in 1892-93.
Buildings.	
Forest rest-house at Kanda	Partly done—will be completed in 1893-94.
Ranger's house at Kanda	Partly done—will be completed in 1893-94.
Forest guard's house at Paterpani	Postponed for want of funds.
Forest house at Kalagarh	Partly done—will be completed in 1893-94.
Revenue depôt at Choi Parao	Postponed till 1893-94.
Forest guard's hut at Shikaridera	Partly done—will be completed in 1893-94.
Ganges Division.	
Buildings.	
Kotedwara office	Not built—deferred till the Police Department pays for the old office which is to be taken over by them.
Leasing of Semla and other gums	No application for the lease; but gum exported through chaukies at royalty rates.
Bundelkhand Division.	
Buildings.	
Chauri rest-house	Partly done—will be finished in 1893-94.
Demarcation	Partly done—new stone pillars not yet put up in the Moth pargana.

Dated Naini Tal:
The 4th October 1893.

H. C. HILL,
Conservator of Forests, Central Circle, N.-W. P. and Oudh.

List of Errata for the Oudh Circle Annual Administration Report for the year 1892-93.

Para. 3, 3rd line, *for* " nave granted concessions " *read* " have granted concessions."

„ 4, *for* "Chapter IV" *read* " Chapter II."

„ 5, 3rd line, *for* "Villages" *read* "Villagers."

„ 13, 2nd „ *for* "n the Burwar" *read* "in the Burwar."

„ 17, 10th „ *for* "Mr. B. A. Rehsch" *read* "Mr. B. A. Rebsch."

„ 26, 12th „ *for* "will" *read* "would."

„ 27, 16th „ *for* "ten per cent. pies" *read* "ten pies."

„ 35, In Bahraich 2nd line *for* "the open are as" *read* "the open areas."

„ 38, 2nd line, *for* "Dadua" *read* "Dudua."

„ 39, 4th „ after fuel add "per acre."

„ 42, 1st „ *for* "Dhan" *read* "Dhau."

„ 53, Removals by Government $\frac{5908}{26764}$.

„ „ Bahraich Rs. $\frac{1791}{41651}$.

„ „ Gorakhpur Rs. $\frac{1447}{22265}$.

„ 57, Statement No. III, col. II, *for* "$\frac{4606}{13018}$" *read* "$\frac{4606}{13618}$."

„ 58, 11th line, *for* "Chapter" *read* "Chapters."

„ 59, 1st „ *for* "outstanding" *read* "outstandings."

„ 60, Direction Division, 1st line, *for* "Mr. S. Eardly Wilmot" *read* "Mr. S. Eardley Wilmot."

„ 67, 1st line, *for* "Dudna" *read* "Dudua."

Form No. 48, col. 9 of grand total, *for* "$\frac{40}{5376}$" *read* "$\frac{40}{5376}$."

„ „ 52, Kheri, Col. 3, Head A, *for* "$\frac{0}{6}$" *read* "$\frac{0}{6}$."

„ „ „ „ „ 5, „ „ *for* "$\frac{1}{6}$" *read* "$\frac{0}{1}$"

„ „ „ „ „ 6, „ „ $\frac{1}{6}$ should be against Head B in the same col.

„ „ „ „ „ 14, „ „ *for* "$\frac{0}{16}$" *read* "$\frac{0}{6}$."

„ „ „ „ „ „ „ B, *for* "$\frac{8}{61}$" *read* "$\frac{18}{61}$."

„ „ „ Add at foot-note of this form "A case of embezzlement in bahramghat Division was erroneously entered last year in this form and has since been decided by the Sessions Judge of Lucknow so omitted this year from column 2."

„ „ 53, The area entered under Gorakhpur Division in 1871-92 in cols 5 and 7 was incorrect in order to make the comparison possible the correct figures have been entered this year in column 4 of the form.

„ „ „ *for* " Nawaganj " *read* " Nawabganj. "

„ „ 55, In foot-note * *for* "$\frac{3056}{6508}$" *read* "$\frac{3056}{6538}$."

„ „ 56, In east Lehra *for* "$\frac{13}{26}$" *read* "$\frac{13}{24}$."

„ „ 58, *read* Pilibhit { Grazing dues No. / Grass, &c. (thatching) / Minor produce

Mds.	$\frac{0}{332}$	$\frac{0}{44}$
„	$\frac{0}{11}$	$\frac{0}{8}$
Total	$\frac{0}{343}$	$\frac{0}{52}$

for the figures given in the original form.

„ „ 58, Foot-note should be omitted.

Form No. 59, page XXX, in col. Particular omit 1st and 2nd line, Balance at Commencement of the year by Divisions—(continued).

„	„	59, page XXXII	ditto	ditto	ditto.
„	„	„ „ XXXIV	ditto.	ditto	ditto.
„	„	„ „ XXXVI	ditto	ditto	ditto.

„ „ 60, „ XXXIX, sal scantling, col. 3, *for* "3,695" *read* "3,590" In the same column of total *for* "38,542" *read* "38,437" In grand total *for* "54,923" *read* "54,818" (abstract) *for* "982,126" *read* "982,021" and *for* "1,342,923" *read* "1,342,818."

„ „ 61, page XLIII, Budget head IV (*b*), *for* "sharted" *read* "shared"

„ „ „ Budget head VIII (*a*), in column of total, *for* "$\frac{10870}{10015}$" *read* "$\frac{10873}{10015}$."

„ „ 62, Col. of total, *for* "17,39,279-1-9" *read* "17,39,289-1-9."

„ „ 63, Gorakhpur against column of total *for* "1,35,715-1-3" *read* "1,35,115-1-3."

„ „ „ Remark (*d*), 3rd line, *for* "August 8893" *read* "August 1893."

No. 151L.G. of 1893-94.

FROM

S. EARDLEY-WILMOT, ESQ.,

CONSERVATOR OF FORESTS, NORTH-WESTERN PROVINCES AND OUDH,

OUDH CIRCLE,

To

THE SECRETARY TO GOVERNMENT,

NORTH-WESTERN PROVINCES AND OUDH,

REVENUE (FORESTS) DEPARTMENT.

Dated Naini Tal, the 26th September 1893.

SIR,

I HAVE the honor to forward the Annual Progress Report of Administration in this Circle for the 15 months ending the 30th June 1893. I regret the delay which has occurred in the submission of this report, but the financial statements did not reach this office from that of the Auditor and Comptroller-General till the 16th instant, and when received, it was found that they were compiled for 15 months.

2. The necessity of separating the figures of the forest year so as to enable comparison in next year's report, entailed much labor and time. In the body of the report where double figures are given, the upper are those of three months preceding the first July 1892, and the lower those of the following 12 months. In the Financial Forms in Appendix to the Report, the 12 months' figures have been added to the Auditor and Comptroller-General's figures, which, as before stated, are for 15 months.

I have the honor to be,

SIR,

Your most obedient servant,

S. EARDLEY-WILMOT,

Conservator of Forests, N.-W. P. and Oudh,
Oudh Circle.

OUDH CIRCLE REPORT.

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ANNUAL PROGRESS REPORT

OF

FOREST ADMINISTRATION IN THE OUDH CIRCLE,

N.-W. P. AND OUDH,

For the year 1st July 1892 to 30th June 1893.

INTRODUCTION.

The year under report has been one of many changes and much progress. The number of Executive charges has been reduced by the closing of the Bahramghát Saw Mills, and by the amalgamation of the Bhira Division with Kherí. The compilation of Working Plans has received much attention, the permanent demarcation of Reserves has been taken in hand, the survey of the forests of the Circle on the 4 inch scale has commenced: good progress has been made in the substitution of the system of direct sales for that of departmental workings, the definition of privileges and concessions both as regards quantity and locality, has been taken in hand; the realignment of certain boundaries with a view to their simplification is well advanced; protection has been successful; and lastly, the financial results of the year's working appear to be the most favorable on record.

CHAPTER I.

EXTENSION AND CONSTITUTION OF STATE FORESTS.

I.—Alteration of Area.

2. The area of the Circle is not yet accurately known; but, as the work of the Forest Survey is progressing rapidly, it is hoped that in a short time this information will be available. The changes during the year were small and are detailed below, but considerable alterations are in prospect in the near future on the completion of the Khairigarh Exchange, and of the realignment of the Gonda and Charda Forest boundaries.

In **Pilibhit** 468 acres of unclassed forest were formally reserved.

In **Bahraich** 2,421 acres were similarly reclassified.

In **Gorakhpur** it was discovered that 1,369 acres of State Forest had never been formally reserved that 494 acres included in reserves were not, till purchased this year, the property of Government; whilst 148 acres acquired in order to complete a natural boundary in East Lehra, and 5 acres in Rámgarh forest are added to unclassed forests pending formal reservation The area of reserves in Gorakhpur is thus reduced by 1 square mile, and that of unclassed forests increased by 3 square miles.

II.—Forest Settlements.

(3). Forest Settlements are complete in the Oudh Circle. In the forests of Oudh proper and of Gorakhpur, there are no rights or servitudes; in the former, Government have granted concessions, whilst the latter are totally unburdened.

(4). It is only in the forests of the **Pilibhit** Division that, a settlement having been made according to the provisions of Chapter IV of the Forest Act (VII) of 1878, rights have been recorded in favor of the neighbouring tenantry. The regulation of the exercise of these rights has occupied attention during the past 18 months with the result, briefly that right holding villages have been grouped and the areas for the exercise of rights defined, that the indent system of supply of free produce through the department has been introduced; and that the privilege of burning open areas has been rescinded, in so far that burning is only permitted once a year under departmental supervision. The question of extraction of free produce in excess of the annual increment of the forest is in abeyance pending the collection of more reliable information as to the drain on the open areas after the indent system has been in force for some time.

5. The question of the regulation of concessions granted at the pleasure of the Local Government has also had attention chiefly in regard to the impossibility of reproduction on account of excessive grazing and the destruction of all young growth by unlimited cutting by privileged villages. This unfortunate state of affairs is most noticeable in **Bahraich**, where a settlement of the amount of concessions to be granted has been ordered on the basis of the extent of cultivated area of each village, to which has been added the extremely important ruling that the free produce so defined may be granted from any forest within eight miles of the privileged village, thereby enabling the Department to utilize the refuse of the improvement fellings which are now being carried out over large areas in this Division.

6. In **Gonda** the regulation of concessions is still under consideration. It was discovered that no authorized list of privileged villages has been issued for the forests of this Division, and further enquiry brought again to notice the fact that all concessions in the Tulshipur parganas of Bahraich and Gonda had been commuted many years previously by a free gift of 40 square miles or one-fourth of the area of State reserves, to the Bulrampur Estate. The matter has been referred to Government for orders.

7. In **Kheri** the requirements of privileged villages is not so enormous as in other districts, as to endanger the welfare or even the existence of the forests, and it is confidently expected that the exchange of lands with the Khairigarh Estate will *permit of the whole Sal bearing area in this Division being freed from concessions, thus allowing the tree forest now closed to be worked over with the result of nearly doubling the outturn and income of this Division.

8. Much labor and research was expended during the year in overhauling the notifications regarding the constitution of the State Forests. There were instances of areas proposed for reservation, but never finally reserved; of areas exchanged, but not disforested; of areas belonging to State Forests, but neither claimed nor reserved. A series of reprints of all necessary notifications from 1865 up to date was issued from the Head Office to each Division, and it is hoped that now order is in some measure restored, there will be little difficulty in maintaining it.

III.—Demarcation.

9. The unsatisfactory state of the boundaries of the circle was remarked on in the last Annual Report. The Local Government accepted the views and proposals of the Conservator in reference to a permanent demarcation of State reserves and ample funds were placed at the disposal of Divisional Officers to give effect to the orders issued. The work of the year was necessarily limited chiefly to the purchase and carriage of monoliths, which are of uniform pattern for the circle, and were procured from the quarries of Bengal at special rates. The actual erection of these pillars will follow the work of the Survey department which has now completed operations only in Pilibhit. The expenditure on demarcation in the circle amounted to Rs. $\frac{42}{10,873}$, or 20 times as much as last year.

10. In **Pilibhit** 138 new pattern monoliths were erected and 230 more are ready to be put up at the commencement of next season. Three hundred and two wooden posts were erected in order to define the present boundaries of grass plains in the forest, with a view to collection of statistics in the future regarding the extension or otherwise of tree growth in these areas. The work was stopped by the advent of the rainy season. Boundary paths were cleared as usual, and ditches cleared where necessary. The total expenditure amounted to Rs. 726. Of three boundary disputes only one was settled during the year; and two disputed boundaries, the one on the Chuka nadi the other on the west of compartment (2) Bishanpur, remain undecided. These disputes cannot be settled without the orders of the District Officer. They have now been pending for sometime, and as the permanent demarcation of the Division is approaching completion, it is hoped that the urgency of this matter may be noted by Government.

11. In **Kheri** 500 monoliths were purchased and are awaiting the signature of the agreement with Khairigarh and the arrival of the Forest Survey. Nothing can be done until the former matter is finally settled. There is only one boundary dispute at Khamaria, which is now under settlement. As usual the Nepal Darbar did not clear their boundary until complaints were made through the Commissioner, and in consequence one fire crossed from Nepal and did some damage in closed forests. The amount expended on demarcation was Rs. 1,878.

12. In **Bahraich** 1,300 monoliths were purchased and are in course of erection. The permanent demarcation of the Division is expected to be completed in three years. Proposals for the realignment of the Charda boundary on a basis of an acre for acre exchange with the Balrámpur Estate, were sanctioned. The work is in progress and will probably be completed during next working season. The cost of demarcation works was Rs. 5,372.

13. In **Gonda** 200 monoliths were purchased; masonry pillars with stone slabs for numbers were erected n the Burwár allotments, and the usual repairs and clearances were carried out. The most important work

* Since the close of the forest year the closure of all Sál areas has been sanctioned by Government.

of the season was, however, the realignment with a view to simplification of the whole of the southern boundary on a length of 125 miles on a basis of an acre for acre exchange with the Balrámpur Estate. Thirty miles of this realignment has been marked on the ground, and the remainder entered on the map; the Forest Survey will undertake the survey of the whole boundary next cold weather. As usual, the Nepal Durbar did not clear the neutral strip along the boundary. The total cost of demarcation amounted to Rs $\frac{2}{1,593}$.

14 In Gorakhpur 625 monoliths were purchased for erection during the coming working season. The expenditure on demarcation was Rs. $\frac{40}{1,605}$.

IV.—Surveys.

15. The Forest Survey Branch commenced operations in the circle and completed the field work over the whole of the Pilibhit Division and about 98 square miles of the Bhira Range, Kheri Division. The cost of the former amounted to Rs. 3,379, while Rs. $\frac{1,901}{5,080}$ represent the total expenditure on surveys in the circle. Next season this survey will have parties both in Kheri and Gonda.

CHAPTER II.

MANAGEMENT OF STATE FORESTS.

I.—Regulation of Working.

(a) *Working Plans and their Control.*

16. The Kherí Working Plan after having been approved of by the Inspector-General of Forests received the sanction of the Local Government, and came into force from 1st April 1892. The adoption of this plan altered the whole system of working of these valuable sál forests and resulted in the cessation of departmental working and the closure of the Bahramghát Saw Mills.

17. Proposals for the compilation of Working Plans for the Pilibhít, Bhira, Motipur, Chakia Charda, Bhingá Rámgarh and Gorakhpur forests were forwarded to the Inspector-General of Forests for approval. Speaking generally, these were accepted, except where the regulations of the exercise of concessions were incomplete, the Inspector-General of Forests being of opinion that the working of forest areas burdened with undefined privileges was undesirable. The result of this statement of opinion has been that, after due enquiry, the Local Government have, as stated in Chapter III, ordered a definition of privileges to be carried out in the forests concerned. Of the Working Plans abovementioned that for the Bhingá forest compiled by Mr. B. B. Osmaston, Assistant Conservator, is now complete in manuscript; for Motipur by Mr. B. A. Rehsch, Deputy Conservator, is almost ready for the press; the field work for the Pilibhit and Chakia Charda Working Plans is completed, and the Gorakhpur Working Plan compiled by Mr. Har Sarup, Extra-Assistant Conservator, should be in print before next working season.

The plan for the Rámgarh forests in Gonda was entrusted to Mr. Karuna Nidhan Mukerji, Extra-Assistant Conservator, the Divisional Officer, but is not yet available, although it is the smallest and least important compilation of all the plans undertaken. No proposals were made for a plan of working the main Gonda forests, the extreme irregularity of the crop and the want of a market for the inferior species which grow in this area, rendering this at present a useless labor. When the Bengal North-Western Railway reaches Tulsipur, more will be known as to the future of those forests.

(b) *Annual Plans of Operations.*

18. Annual plans of operations were as usual submitted and sanctioned by Divisions. They were worked up to as far as the strength and efficiency of the the establishment permitted. In most Divisions, however, the extremely liberal grants for improvement of the forests were not utilized in full, owing to the fact that the personal supervision of the Divisional Officer was not possible over such a multiplicity of works as were planned.

II.—Working of the year.

(a) *Communications and Buildings.*

19. The expenditure of the forest year under report was Rs. $\frac{1,842}{13,100}$ under A-VII*a*., and Rs. $\frac{1,232}{15,711}$ under A-VII*b*. Large sums were placed at the disposal of Divisional Officers under these heads in the budget of 1892-93, but as explained in paragraph (18), it was not always possible to expend the amounts with proper supervision.

20. In all Divisions ordinary repairs were carried out as usual.

In Pilibhit four new quarters for guards were completed, but no new roads were made.

In Kheri not much was done except in completion of one rest-house and commencement of another, whilst a ranger's quarters were completed, and Divisional Office and one forest guards' quarters were commenced.

In Bahraich no new buildings were undertaken, and no new roads were made.

In Gonda two new rest-houses and two new quarters for guards were commenced, and 5¼ miles of new road were constructed.

In Gorakhpur more activity was shown; a headquarter's bungalow and Divisional Office were commenced, and various out-houses completed, whilst 25 miles of new roads were completed, and others were under construction. Gorakhpur is the most backward of all the Divisions of this circle in the way of communications, and now that the forests are to be opened out, it is most urgent that new roads should be constructed as soon as possible.

21. The attention of Divisional Officers must in the future be directed to providing accommodation for the Subordinate Staff, for it is undeniable that dry and weather-proof quarters go far to maintain the health of the staff, especially in the more malarious forests of the circle. Full detail of the work of the year will be found in Form No. 51.

(b) *Protection of the forest from injury.*

1. *General protection and breaches of the Forest Law.*

22. In the matter of general protection, a great advance has been made during the year in the Sub-Division of the forests into guards' beats and insisting on the individual responsibility of the Beat Officers as regards protection of the areas entrusted to them. Formerly in this circle there was no definition of protective charges, the forest guards were ignorant of their duties and of the area in which these were to be exercised, and had every opportunity of neglecting their work and absenting themselves from their posts. Each beat is now defined, its headquarters fixed, and every Protective Officer is obliged to be in uniform when on duty. The system increases the self-respect of the men, and is conducive to emulation in the successful performance of their duties.

23. The cases before the courts during the period under report show a total of $\frac{12}{54}$, of which $\frac{11}{54}$ resulted in the conviction of $\frac{18}{167}$ persons, whilst in $\frac{1}{9}$ cases $\frac{1}{19}$ persons were acquitted. These results seem to prove that prosecutions were not unnecessarily entered upon. The increase in cases over those of last year is explained from the Bahraich returns as owing to the fact that each cattle owner was frequently made a defendant in cases where the cattle of two or more owners were detected in trespassing. This explanation is borne out by the fact that although the cases in this Division rose from 45 to $\frac{4}{60}$, the persons implicated increased only from 121 to $\frac{8}{128}$. Three-fourths of the criminal cases are referable to illicit grazing and were prosecuted in the Bahraich district, where there is a constant struggle between the Forest Officer to give effect to the orders of Government in the matter of closure of forests and the large number of cattle breeders, who risk the punishments attached to illicit grazing, in hopes of the profits gained by the successful evasion of payment of dues. The remainder of the cases were due to illicit removal of forest produce and to infringement of Forest Law in reference to Fire Conservancy. These cases are much more difficult to prove, but it is satisfactory to note that a breach of the rules laid down in G.O. No. 349F., dated 2nd May 1891, was in the Gonda district punished with three months' rigorous imprisonment and Rs. 100 fine.

24. Cases compounded during the year fell from 114 involving 221 persons to $\frac{22}{69}$ involving $\frac{41}{117}$ persons, but the amounts realized increased from Rs. 876 to Rs. $\frac{245}{1,134}$, owing chiefly to action taken in Gonda on account of illicit felling of green Shisham by a purchaser.

25. It is still a matter for consideration whether or not the Subordinate Staff of the circle is sufficiently zealous in the detection of minor forest offences, such as would be disposed of under section 67 of the Forest Act; the only way to increase their vigilance is to punish the Protective Officers for any breach of Forest Rules which occurs in their beats, and is not reported by them. The number of convictions in cases of forest fires continues to be most unsatisfactory. It is extremely rare that a police enquiry into the circumstances of a forest fire results in the apprehension or conviction of an offender.

(2) *Protection from fire.*

26. The season was most favourable; during the hot weather rain fell frequently, and although this prevented in many cases the clear burning of fire lines and of the outside forests till late in the season, yet the growth of new grass soon became so vigorous, that the intensity of any fire which might have occurred would have been considerably checked. The system advocated in last year's annual report of clear cut fire lines and the personal responsibility of the Beat Officers was carried out in the working of the year, and the general results of protection were favourable in all forests save those of Bhira and Pilibhit. Both these areas were selected as furnishing a retreat for bands of dacoits, who on occasion forcibly resented the appearance on the scene of the Protective Staff, and whilst the tenantry in Pilibhit were, as usual, hostile to Fire conservancy, those in Bhira showed such indifference and negligence that before the close of the season warnings were issued through the District Officer that action will be taken under the final clause of section 25 of the Forest Act, if this state of affairs were continued. The conduct of the subordinates in Pilibhit in the matter of Fire Conservancy can only be described as disgraceful in its apathy and ignorance, whilst there is grave reason to fear that some of the officials vented their private spite by firing the forests in the immediate charge of their enemies. So far as detection followed, these men have been punished.

27 **In Pilibhit** during the past two years 31 miles of 100 feet of Fire line and 23 miles of 50 feet line have been cleared, the forest area has been thus divided into small blocks, and protection from accident should be adequate. In no other Division of the circle, taking equal areas, does such a net work of protective fire lines exist; in no other Division was the personal supervision of the Divisional Officer in fire conservancy arrangements equally possible, and yet the results are thoroughly unsatisfactory. Ten fires burning over 18,370 acres occurred between the 4th March and the 20th May, and so far as has been ascertained, these may be traced to the following causes. One fire of 106 acres was due to the carelessness of the Beat Officer when burning a fire line, two fires aggregating 2,900 acres are supposed to be due to incendiarism; four fires over 1,970 acres, crossed from unrestricted compartments where the tenantry had the right to burn; 13,376 acres were burnt in two fires lighted by extractors of Forest produce, and finally one fire was supposed to be lighted maliciously by the Subordinate Staff, but fortunately only passed over 18 acres.

In Kheri every effort was made to complete the system of fire lines prescribed in the Working Plan, and 33 miles of 100, and 50 feet fire lines were cut; the system of individual responsibility of Beat Officers was introduced, and the whole of the area of the Trans-Sarda Sal forests, with the exception of 143 acres, was successfully protected. The change of system resulted in complete success with a saving of 20 per cent. on expenditure in spite of a large outlay on new fire lines the cost per acre being ten per cent. pies as against 12 pie of last year. In the Cis Sarda forests of *Bhira*, the expenditure was also reduced from 6 9 to 3 6 pies per acre, but the results of the year's working was not so successful. Twelve fires occurred in these forests between the 21th March and the 11th June, passing over 13,055 acres. These fires may be classified as below, three fires passing over 2,256 acres were attributable to accidents when burning fire lines; one fire of 51 acres entered the closed area from outside; one fire of 105 acres was lighted by travellers; two fires of 668 acres by dacoits; one fire of 20 acres was due to incendiarism and the cause of four fires over 9,955 acres is unknown. A system of clear cut fire lines for the Bhira forests has been drawn up, and the work will be completed before next dry season.

In Bahraich there were only two fires over a total area of 810 acres. Of these one over 90 acres was caused by the carelessness of a traveller along the main forest road, the other was due to the negligence of Nepal Officials who burnt the grass on the boundary and permitted fire to spread into Government forests. The cost of protection in spite of extra expenditure on clear cut 100 feet lines, was somewhat reduced. It stands at 5 25 pie per acre.

In Gonda there were ten fires over 2,066 acres; the cause of two fires over 58 acres is unknown; four fires over 72 acres were maliciously lighted; three fires over 1,920 acres crossed from private forests, and one fire over 16 acres was due to the negligence of the establishment. Out of these ten cases punishments in fines, imprisonment, stripes or dismissal, have been awarded in six cases, whilst in two others the Nepal Darbar have ordered the villagers concerned to give security for future good behaviour. I have again this year to remark on the promptness and success which attends enquiry into cases of unsuccessful protection in this Division. A system of clear cut fire lines has been devised for these forests, and will be completed next season.

In Gorakhpur there were three fires over 129 acres, of which two were due to the carelessness of the forest establishment or workmen, and the third was caused by the negligence of a traveller.

28. The following two statements give results by Divisions (which are not apparent from Form 53), and classification of causes of fires:—

Division.	Area attempted. Acres. 1893.	Area attempted. Acres. 1892.	Area attempted. Percentage of total area of Division. 1893.	Area attempted. Percentage of total area of Division. 1892.	Area protected. 1893.	Area protected. 1892.	Failures. Acres. 1893.	Failures. Acres. 1892.	Failures. Percentage of area attempted. 1893.	Failures. Percentage of area attempted. 1892.	Cost. 1893.	Cost. 1892.	Cost per acre attempted in pies. 1893.	Cost per acre attempted in pies. 1892.
											Rs.	Rs.		
Pilibhit	72,958	51,519	75·35	52·69	54,588	26,248	18,370	25,271	25·17	49·05	1,537	1,344	4·04	4·97
Bhira	...	93,719	...	97·16	...	84,489	...	9,230	...	9·84	...	3,364	...	6·89
Kherí	2,17,373	1,23,654	78·06	67·94	2,04,175	1,23,654	13,198	...	6·07	...	10,384	8,128	9·17	12·62
Bahraich	1,57,760	1,57,760	74·56	74·56	1,56,920	1,57,620	840	140	·53	0·08	4,315	3,986	5·25	4·85
Gonda	99,079	99,079	100·00	100·00	97,013	95,815	2,066	3,264	2·08	3·29	1,214	1,100	2·35	2·13
Gorakhpur ...	80,555	1,08,938	72·99	100·00	80,426	1,08,713	129	225	·16	0·20	5,459	1,321	13·01	2·32
Total ...	6,27,725	6,34,669	78·83	79·81	5,93,122	5,96,539	34,603	38,130	5·51	6·00	22,909	19,233	7·00	5·81

Year.	By the Forest Establishment when burning fire lines. Number.	Area in acres.	Fires which entered the forests by crossing exterior fire lines. Number.	Area in acres.	By workmen (when in forest employ), by accident. Number.	Area in acres.	By villagers, travellers, or soldiers, by accident. Number.	Area in acres.	Fires caused by lighting or fire balloons. Number.	Area in acres.	Maliciously lighted inside the forests. Number.	Area in acres.	By Dacoits. Number.	Area in acres.	Cause unknown. Number.	Area in acres.	Total. Number.	Area in acres.
1893 ...	5	2,376	9	4,691	6	13,530	3	315	...	...	8	3,010	2	668	6	10,013	39	34,603
1892 ...	6	8,563	17	9,292	7	298	10	5,346	...	...	14	14,631	...	...	...	...	54	38,130

(3) *Regulation of grazing and protection from cattle.*

29 No actual change in the area open to grazing has occurred during the year, although as noted elsewhere, the definition of concessions has been undertaken; and this, when completed, will restrict the number of cattle entitled to graze within reasonable limits. In this circle save in the forests of Pilibhít, there are no grazing rights, but here the number of cattle allowed to graze amounts to about one per acre of open forests. In Oudh proper the villagers within three miles of the forest are allowed to graze at privileged rates or as in the case of the Kherí, Tharus, pay no fees at all. The forests of Gorakhpur are free from rights or concessions, but the grass lands are thrown open to grazing by executive order of the Divisional Forest Officer.

30. As noted in last year's report, the Divisional percentage of areas closed to grazing is too small. Undefined grazing privileges, and the so-called grazing lease, granted

to the Bulrámpur Estate, have resulted in closing to the operations of the Department very large areas of State forest, involving a serious loss of revenue besides a deterioration of growth in localities requiring improvement fellings or thinnings; but attention has been drawn to this matter and further discussion is here unnecessary until the proportion of cattle grazed to the cultivated area held by the tenantry is ascertained. There can be no doubt that a great impetus has been given to cattle-breeding by permission to graze an unlimited number of cattle at low rates.

31. The question of the removal of the large herds of wild or ownerless cattle which overrun the Bhingá forests is under consideration, whilst the continued frequency of illicit grazing in Bahraich in spite of the number of cattle impounded, and the severe sentences passed by the magistracy in cases of detected illicit grazing, seem to point to the conclusion that in spite of risk of detection systematic trespass is considered to be a financial success by the cattle-breeders of this district.

32. The most important question before Government during the year was the closure to grazing of 46 square miles of Sál forest in the Kheri Division. The exchange of 36,000 acres of forest land with an equal area of land the property of the Khairigarh Estate, permits of the closure to cattle of this valuable Sál area without any hardship to the privileged tenantry. As before noted this closure is now sanctioned and thus the advantage of the proposed exchange of land which was based from a departmental point of view, entirely upon the resulting possibility of closing these Sál forests to grazing, has already been proved.

33. It is satisfactory to notice that in all Divisions the importance of excluding the cattle of other than privileged or right holding owners, has had attention, and that Forests Officers are now alive to the fact that the areas open to grazing are already taxed to the full extent of their yield in providing grazing to the cattle of those entitled thereto by right or concession.

(c)—*Improvement of forest growth.*

(1)—*Natural reproduction.*

34. The only measures needful in this circle to ensure or improve natural reproduction consist in the exclusion of fires and cattle from the tree forest followed by improvement fellings; which, where necessary, would open out the standing crop sufficiently to allow of free germination. It will be seen from the report of the year's working that the importance of Fire Conservancy and of restricting, so far as the welfare of the tenantry will permit, the number of cattle grazed and the area grazed over has had attention. It may be said that good progress has already been made in this direction and that more will be made in the future, now that the principle has been recognized that no working of any area can be permitted unless reproduction is fully assured. Sál seeded plentifully in the summer of 1892, but the spring of the following year was remarkable for the total absence of Sál flower throughout the forests of this circle.

35. With regard to the improvement of forest growth by climber cutting the following details are given :—

In Pilibhit 6,271 acres were cleared of climbers at a cost of 13 pie per acre. Little attention had in past years been given to the importance of this operation and the more northerly parts of the division were much overrun with these pests.

In Kheri 14,027 acres were gone over in terms of the prescriptions of the Working Plan at a cost of 12¾ pie per acre.

In Bahraich 17,020 acres were operated on at a cost of about 5·3 pie per acre. The closed forests of this Division are practically free from climbers, the open are as still remain to be cleared.

In Gonda 7,233 acres were cleared of climbers at a cost of 11 pie per acre. A scheme regulating the climber cutting in this Division has been under preparation by the Divisional Officer for some time, and it is hoped that it will shortly be completed.

In Gorakhpur climber cutting was carried out simultaneously with the improvement fellings, the cost not being kept separate; and an area of 2,110 acres in the Sunari forest was also worked over. The expenditure amounting to Rs. 487 was excessive even though the climbers were most luxuriant, their growth never having been checked in the memory of man.

(2)—*Artificial Reproduction.*

36. No cultural operations were carried out in the circle during the year; existing plantations were kept up, but available funds are more profitably employed in opening up natural forests than in futile gardening in unsuitable localities. The principle plantations of the circle are situated in Gorakhpur, the largest area being 2,206 acres under Shisham at Sakwi. The Divisional Officer anticipates that here as elsewhere, where grown on a water-logged soil, the Shisham may die off, before reaching maturity, so soon as the main roots reach water level. The other petty plantations are interes ting, but the time spent on them would have been more profitably employed in protecting and improving the important forests of the circle, for where natural reproduction of valuable species is forthcoming, the artificial rearing of exotics should be regarded only as a pastime.

(3)—*Early thinnings.*

(37.) No early thinnings were undertaken during the year.

(4)—*Experiments.*

38. The following measurements made in the Kheri Division are worthy of note, they relate to the growth of Sál trees in a sample plot selected near Dadua in 1880, and the average increment in radius shows a growth of ·284 inches per annum, or in other words that it took 3·52 years for the growth of 1 inch of radius. The circumstances in which these trees have existed for the past 13 years are not perhaps more exceptional than those obtaining in a forest where careful improvement fellings have taken place, and they justify Captain Wood's calculations that five years for an inch of radius or 60 years for the production of a I Class Sál tree, is a fair average.

39. Further statistics were collected by Mr. Hill, Deputy Conservator, with regard to the outturn from areas cleared, felled, in 1869-70, and since re-clothed with Sal forest. The growth of 23 years yielded 11 solid cubic feet of timber and 660 solid cubic feet of fuel.

40. The experiment of Sál sowings on clear felled strips in Gorakhpur as mentioned in para. 38 of last year's report was not continued, although the result still appears to be successful. As before stated the cost of operations is excessive.

(*d*).—*Exploitation of Major Forest Produce.*

41. The exploitation of Major Forest Produce in this circle may be conveniently classified under selection fellings, improvement fellings, coppice fellings, and unregulated fellings. The first method of exploitation was up to the present year in force in the Kheri Division, and produce of these former fellings is still being disposed of. The same may be said in a lesser degree of the forests of the Bahraich Division. In the irregular forests of the Gonda Division, small selections of mature trees are still made yearly. Improvement fellings are prescribed in the plans now in force or under preparation in all Divisions save Gonda. Coppice fellings are carried out in the Nawábganj forests of Gonda and in the Rámgarh forests of Gorakhpur, whilst unregulated fellings are held to include the removal of green timber by right-holders and concessionists the fellings on fire lines or roads and all other fellings which are not regulated by the sylvicultural requirements of the forest.

(1)—Selection Fellings.

42. No selection fellings took place in the circle save in Gonda where 2,635 trees chiefly of dhan were marked by the Range Officer and sold for Rs. 11,200. Pending the creation of a good market for inferior timbers the selection of mature trees over large areas is the only way of dealing with the inferior and irregular forests of this Division.

(2).—Improvement Fellings.

43. The working of the most important forests of the circle is, for the next few years, based on this method.

In Pilibhit fellings were prescribed in compartment 23, Dhanaura, but were not carried out owing to the inability of the Range Officer to understand the marking of trees suitable for felling.

In Kheri in terms of the new Working Plan, operations were commenced in compartments 53 and 54. Owing to this being the first year of working and to the ignorance of the Subordinate Staff, it was impossible to go over the whole area in terms of the prescriptions of the Working Plan. It was only possible to com-

mence the markings at the beginning of the working season, whereas these should have been completed the previous hot weather. The demand for timber of small size and inferior species was not large, but in spite of the novelty of the mode of exploitation and extraction, the results are undoubtedly good. The work in the coupe of the year under report must be finished next season when it will probably be found necessary to carry out the prescriptions of the plan as regards thinning and weeding by Departmental Agency. The absolute necessity of carrying out the terms of the Working Plan in their entirety, and not only those which are financially successful, has been urged on the Divisional Officer. Over one lakh of cubic feet of sawn timber was exported from these fellings during the year.

In Bahraich improvement fellings proceeded in two working circles of the Motipur range where marked trees on the areas prescribed for the year's working were felled, or girdled, when not worth extraction by purchasers. The system was a novelty to the merchants, but worked satisfactorily, showing that there will in future be no difficulty in disposing of the yield of the coupes, the outturn of which is calculated to sell for Rs. 20 per acre. In the Chakia Charda range the regular improvement fellings were continued, the whole outturn being disposed of either to the Bengal North-Western Railway or in the town of Bahraich.

In Gonda experimental fellings over a small area were made, but the difficulty of disposing of the produce prevented this work from being continued.

In Gorakhpur improvement fellings were continued in the Bhari Babhan, Bhari Baisi, West Lehra, and south Banki forests, a total area of 2,491 acres being operated on. The produce of these fellings averaging 650 cubic feet solid per acre in fuel was disposed of to the railway and to brick burners and sugar refiners.

(3).—Coppice Fellings.

44. **In Gonda** coppice fellings were continued in the Nawábganj forest over an area of 800 acres, the proceeds being supplied as fuel to the Bengal North-Western Railway or sold locally.

In Gorakhpur, coppice fellings were continued in Rámgarh, over 900 acres which yielded some 200 cubic feet solid fuel per acre, the proceeds of the fellings supply the city of Gorakhpur with fuel.

(4).—Unregulated Fellings.

45. The amount of major forest produce taken out under this head is referable to the activity shown during the year in the construction of new fire lines in all Divisions save Gonda, to the removals by right-holders and concessionists, and to extraction of dry wood, and in some cases of green timber by purchasers. The felling of over mature green timber in Bhingá, which has now been put a stop to, is included in this head. It appears unnecessary here to do more than indicate the method of exploitation of these various fellings having particulars of yield and outturn to be treated under Chapter III.

(e).—*Extraction and transport of Major Forest Produce by land and water.*

46. It is the endeavour of the Department in Oudh to close all departmental works which involve much time, labor, and expenditure, and so free the Controlling Staff for the important duties connected with the improvement of the forests Much progress has been made in this respect during the past year, notably in the Kheri Division, where formerly the extraction of timber from its felling in the forest, carting to the river, rafting to Bahramghát, sawing into scantling, and delivering by rail to the purchaser, was undertaken by the Department, and even during the year under report a final shipment of 1,000 logs and 30,000 sleepers was made to Bahramghát; whereas under the new system every one of these operations is performed by the purchaser who pays for his timber before it leaves the forest. This satisfactory change has been made possible by the construction of light railways in the vicinity of the forest, and as these means of communication extend their scope, the more worthless products of the forest will become saleable, and sylvicultural operations at present only to be conducted at a loss will be feasible. It is only in the Gorakhpur Division that timber, chiefly in poles, is still carried by the Department to the more distant markets by water and rail.

47. Up till now, however, we have been unable to conduct fuel operations except departmentally. The small profit to be realized on large masses of produce, the difficulties in the way of management of large bodies of laborers in the felling, billetting, stacking and loading operations; the unforseen losses in transit and in remeasurements; the delay caused by unfavorable weather; all these causes intimidate contractors who are averse to investing money in any transactions which have not a quick return. The time must, however, arrive, and it will be hastened to the extension of the railway system, when the continued success of the Department in delivering at a profit the fuel outturn from their fellings will induce contractors to take up the work and thus lighten one of the most arduous labors of the Department.

(*f*).—*Exploitation of Minor Forest produce.*

(1).—Extraction of fodder and other grasses.

48. The extraction of fodder is limited to the requirements of the neighbouring tenantry; there is no sale, except in small quantities locally, for grasses other than thatching grass and "baib," the latter is now largely used for paper making, and is exported as far as Calcutta although there are other valuable grasses such as "narkul" and "munj," which will doubtless command a ready sale in the future, when communications are more complete. The produce of the "baib" crop has up to the present year been collected departmentally and delivered to the purchaser on the nearest railway line, but this system is being gradually done away with, and now only exists in the Gonda and Bahraich Divisions. In the Kheri and Pilibhit Divisions the areas under "baib" are leased for a lump sum and extraction is left to the purchaser, whereby much expenditure and supervision is saved. The reluctance of purchasers to extract forest produce has been before remarked on. Thatching grass is generally leased to contractors who dispose of it locally.

(2).—Grazing.

49. Under Chapter II, paras. 29-33, the regulation of grazing has been considered; its exploitation now calls for remark.

In Pilibhit the maximum number of cattle to be grazed under the settlement is fixed both in the Puranpur and Pilibhit parganahs, and it is the duty of the department to see that this number, already excessive in reference to the area open to grazing, is not exceeded. The number of cattle grazed during the year amounted to 27,222 head, or about 1·9 acre per head, but these figures cannot be guaranteed as correct.

In Kheri and Bahraich the privileged villages have the concession of grazing at privileged rates. As before remarked this privilege has been taken advantage of by cattle-breeders, so that the number of cattle grazed under the rules is probably far in excess of those required by the agricultural necessities of the districts. Cattle grazed numbered 1,43,056 in Kheri, the area open to grazing was 213 square miles or 55 per cent. of the Divisional area, giving 1·11 acres per head grazed. Cattle belonging to Tharus settled in the areas to be exchanged against equal areas of State Forest grazed free to the number of 7,602 head.

In Bahraich the area open to grazing amounts to 1,33,919 acres or 63 per cent. of the Divisional area, the number of cattle grazed was 1,51,623, giving ·89 acre per head.

In Gonda where all the villages contiguous to the forest belong to the Bulrampur Estate; the arrangement of grazing has been fixed by Executive order of the Local Government. By these orders 50,000 head of cattle graze in one-half of the area of State Reserves on payment of reduced fees. This arrangement holds good till October 1899, the area available amounts to 1·47 acre per head of cattle. Percentage of Divisional area closed 52; number of cattle grazed 32,266, number of acres open 46,997.

In Gorakhpur the entire area is free of all claims, but 46 square miles of State Forest consisting chiefly of grass lands is thrown open to the grazing of the neighbouring villagers and in this area 40,851 head of cattle grazed on ·73 acre per head.

50 The exploitation of forest produce by means of grazing is therefore fully provided for in this circle by rightholders and concessionists, and in ordinary circumstances, there is no room for the grazing of outsiders even at enhanced rates.

(3)—Miscellaneous produce.

51. The exploitation of miscellaneous produce outside grass and grazing in the forest of this circle leaves room for improvement, many articles of forest produce such as dyes, roots and gums, are not extracted, and are lost from year to year.

In Pilibhit minor forest produce such as honey, horns, &c., only sold for Rs. $\frac{37}{}$, whilst rightholders removed Rs. $\frac{17}{24}$ worth.

In Kheri only Rs. $\frac{7,819}{1,100}$, were realized from the same source, and concessionists removed Rs. $\frac{525}{3,699}$.

In Bahraich Rs. $\frac{1,560}{7,193}$ was the value of leases of Minor Forest Produce, and concessionists removed Rs. $\frac{7}{519}$.

In Gonda only Rs. $\frac{50}{2,511}$, was obtained, and concessionists removed Rs. $\frac{692}{142}$ worth.

In Gorakhpur only Rs. $\frac{680}{930}$, was realized under this head. There were no free grants.

It is evident from the above that the exploitation of Minor Forest Produce (excluding the manufacture of Katha) is not in some Divisions carried so far as it might be. The reason of this is probably referable to

the fact that the people living in the vicinity of the forests are cultivators and cattle breeders who have little or no knowledge of the extraction of Minor Forest Produce. In the Central Circle the forests are overrun in the winter months with a fluctuating population of hill-men who are acquainted with jungle products and collect them for sale in the nearest bazaar.

CHAPTER III.

GROSS YIELD AND OUTTURN OF FOREST PRODUCE.

I.—Timber and Fuel.

52. The outturn of timber and fuel during the year amounted to $\frac{15,04,499}{70,22,192}$ cubic feet solid, which is made up of $\frac{3,38,095}{45,20,683}$ cubic feet fuel, and $\frac{11,66,404}{25,01,509}$ cubic feet timber.

The following statements will show the agency of extraction and the description of fellings.

I.—*Description of fellings in outturn of timber and fuel.*

Fellings.	Cubic feet.	Remarks.
Selection	5,732 / 78,696	For definition of these terms see paragraph 41.
Improvement fellings	48,998 / 26,84,734	
Coppice fellings	1,02,879 / 4,88,994	Figures in small type show the outturn during the three months preceding the commencement of the forest year.
Total ...	1,57,609 / 32,52,424	
Unregulated fellings	13,46,890 / 37,69,768	
GRAND TOTAL ...	15,04,499 / 70,22,192	

II.—*Agency employed in removal of timber and fuel.*

Agency.	Cubic feet.	Remarks.
Government.		
Selection	4,635 / 22,331	See remarks above.
Coppice fellings	1,02,879 / 3,08,791	As stated in paragraph 42 no selection fellings were carried out during the year, but the produce of former selection fellings was disposed of.
Improvement fellings	23,096 / 25,41,696	
Unregulated fellings	48,927 / 9,96,141	
Total ...	1,79,537 / 38,68,872	
Purchasers.		
Selection	1,097 / 56,365	
Coppice fellings	... / 1,80,200	
Improvement fellings	25,992 / 1,43,128	
Unregulated fellings	3,12,920 / 10,27,396	
Total ...	3,39,919 / 14,07,089	
Right-holders and grantees.		
Unregulated fellings	9,85,043 / 17,46,231	
GRAND TOTAL ..	15,04,499 / 70,22,192	

The outturn from the **Pilibhit** Division amounted to $\frac{3,72,325}{5,97,262}$ cubic feet. There is a large increase in the estimated removals by rightholders and a slight falling off in departmental operations and in removals by purchasers. Too much reliance should not be placed on comparison with previous years in this or other Divisions. In the first place the free grants are only estimated, secondly, the factors adopted differ from those of last year and are now uniform for the Province, and thirdly, the period under report is different.

From **Kheri** there was an outturn of $\frac{2,82,580}{14,13,472}$ cubic feet of timber and fuel against 9,93,787 cubic feet of last year. This large difference is referable to increased fuel operations, more than six lakhs cubic feet in excess of last year's outturn having been prepared chiefly in Bhira, thus accounting for the increase of work by Departmental agency, but at the same nearly twice the quantity of produce was removed by purchasers than in the year last reported on, whilst the estimated removals of privileged persons amounted to about one-third less.

From **Bahraich** the outturn of $\frac{6,34,908}{14,36,527}$ cubic feet timber and fuel decreased and the removals by free grantees increased.

From **Gonda** the outturn amounted to $\frac{2,51,219}{5,64,760}$ cubic feet. The decrease is referable to reduced Departmental operations in fuel; to reduced removals by purchasers, and to diminished demands by privileged villagers.

From **Gorakhpur** an outturn of $\frac{17,477}{29,10,571}$ cubic feet is reported. This large increase is chiefly due to extended operations in Improvement fellings from which fuel to the amount of 11,87,850 cubic feet were supplied to various purchasers and to the outturn of the numerous fire lines cut during the season.

In the **Bahramghat Depot** 1,691 logs were landed and the outturn of the year is shown in the statement below :—

Year.	Indents in cubic feet.							Balance at close of year.
	Balance of last year.	Received during the year.	Total.	Complied with.	Cancelled.	Supplied from the Kheri Division.	Total.	
	C. feet.	C. feet.	C. feet.	C. feet.	C. feet.	C. feet.	C. feet.	C. feet.
1891-92	13,998	34,103	48,041	31,887	2,605	...	34,492	13,549
April to June 1892 ...	13,549	5,814	19,363	16,009	54	...	16,063	3,300
July 1892 to June 1893 ...	3,300	10,966	14,266	6,175	6,991	1,100	14,266	...

The cost of sawing rose from 2·68 of the previous year to 2·93 in the year under report. The depôt and mills are now closed, so that the matter is of slight interest.

(2) *Minor Forest Produce.*

53. The gross cutturn of Minor Forest Produce for the period under report stated in rupees, amounted to Rs. $\frac{21,244}{1,29,311}$, made up as follows :—

Removals by Government.	By purchasers.	By Free grants and Right-holders.
Rs. $\frac{5,[illegible]}{2,[illegible]}$.	Rs. $\frac{13,256}{85,100}$.	Rs. $\frac{2,080}{17,157}$.

The corresponding figures for the period last reported on, being :—

Rs. 28,282.	Rs. 1,17,461.	Rs. 19,847.

Pilibhit yields a total of Rs. $\frac{715}{5,050}$, there being a slight falling off in the estimated quantity of removals and grazing by right holders.

Kheri shows a total of Rs. $\frac{13,747}{43,055}$. There was an increase in grazing dues of Rs. 5,000 due to collections of outstandings of the previous year. An increase in value of baib grass of nearly Rs. 6,000 (the value of the baib exported in the 15 months from 1st April 1892 was double that exported in the preceding 12 months), whilst the manufacture of cutch which brought in a revenue of 8,630 last year, did not proceed during the period under review. There was thus a decided increase in the revenue from forest produce other than kathá.

Bahraich reports an outturn valued at Rs. $\frac{1,791}{21,091}$. There is a falling off in baib grass of Rs. 5,000, due to short deliveries within the year. Rupees 3,458 represents the deficit in export of cutch, no manufacture having been permitted during the year under report. Grazing realized some Rs. 1,900 less, so that there is a deficit of some Rs. 1,100 in the other less important minor produce, as compared with last year, of which some Rs. 800 is referable to less free removals.

Gonda shows a value of Rs. $\frac{3,514}{17,087}$. Restricted Khair fellings resulted in a decrease of some Rs. 4,200, the outturn of baib increased by Rs. 5,300 and sales of mohwa and lime fell off by over Rs. 4,600 owing to there being no demand for these products and also to the fact that the restrictions on reaping the crop of mohwa necessary on account of fire conservancy, are irksome to the Contractors.

Gorakhpur reports an outturn valued at Rs. $\frac{1,417}{22,4[illegible]}$. Grazing dues realized show no great change. The closure of cutch manufacture is responsible for a decrease of Rs. 6,838 and the remainder of the difference is due to less sales of thatching grass and the failure of the Contractors for this commodity in working the areas leased to them.

CHAPTER IV.

FINANCIAL RESULTS.

54. In preparing this chapter for this report it has been necessary to separate the figures of the 15 months of the first forest year so as to permit of comparison in future reports. The figures for 1st April to 30th June are given above, and those for the period 1st July to 30th June, below the line.

55. The statement below gives the results for the last six financial years, those for the financial year 1892-93, for the three months following that year, and for the forest year 1892-93. The last three years have all shown a highest revenue on record, increasing annually by about Rs. 50,000. The present year shows a marked decrease in the total expenditure, notwithstanding that there has been a greater outlay on improvement and protection, and this is due to the gradual cessation of departmental works and the encouragement of direct purchase.

Year.	Square miles.	Gross revenue.	Expenditure.			Net surplus.	Revenue and expenditure per square mile.					Percentage of gross revenue and expenditure.		
			Conservancy and works.	Establishment.	Total.		Gross revenue.	Conservancy and works.	Establishment.	Total.	Surplus.	Conservancy and works.	Establishment.	Total.
		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Average of 6 years to 1891-92.	...	6,30,781	2,68,011	1,05,725	3,73,736	2,57,045	512	217	85	302	210	42	16	58
1891-92 ...	...	7,58,967	2,94,377	1,06,760	4,01,137	3,57,830	611	237	85	322	289	38	14	52
* 1892-93 ...	1,242	7,91,018	2,40,184	1,16,391	3,56,575	4,37,473	639	193	93	286	353	32	14	46
1st April 1892 to 30th June 1892.	1,242	1,59,290	51,572	29,849	81,421	77,869	128	42	21	65	62	32	19	51
† 1892-93 ...	1,241	7,50,226	2,58,526	1,17,119	3,75,645	3,74,581	603	207	94	301	302	34	15	49
Total, 15 months	...	9,09,516	3,10,098	1,46,968	4,57,066	4,52,450	731	249	118	367	364	34	16	50

* Financial year. † Forest year.

56. The following statement will show the revenue and expenditure by Divisions. It is worked out in detail, so as to permit of future statistical comparisons, but also allows of comparison between the financial years 1891-92 and 1892-93.—

Divisions.		Receipts.		Charges.		Surplus.		Deficit.		Percentage of charges on receipts.	
		1892-93.	1891-92.	1892-93.	1891-92.	1892-93.	1891-92.	1892-93.	1891-92.	1892-93.	1891-92.
		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Direction ...	*	6	...	23,605	22,345	...	...	23,599	22,345	...	...
	†	6	...	7,191	...	...	...	7,185	...	...	...
	‡	...	...	22,451	..	...	...	22,451	...	...	...
Pilibhít ...	*	9,446	9,855	19,939	14,820	...	...	10,493	4,965	211	150
	†	1,175	...	3,052	...	...	...	1,877	...	260	...
	‡	9,187	...	20,642	...	...	...	11,455	...	224	...
Kheri ...	*	2,34,309	3,06,431	1,19,816	2,04,405	1,14,493	1,02,029	...	...	51	67
	†	57,280	...	30,004	...	27,276	...	...	...	52	...
	‡	2,44,916	...	1,17,730	...	1,27,186	...	...	...	48	...
Bahramghát	*	2,05,312	1,06,430	27,751	34,038	1,77,561	72,392	...	...	13	33
	†	31,020	...	6,577	...	24,443	...	...	...	18	...
	‡	1,74,875	...	23,121	...	1,51,754	...	...	...	13	...
Bahraich ...	*	1,81,315	1,85,714	58,415	49,122	1,22,900	1,36,592	...	...	32	26
	†	50,160	...	13,106	...	37,054	...	...	...	26	...
	‡	1,55,906	...	57,998	..	97,908	...	...	...	37	...
Gonda ...	*	54,753	58,936	34,422	30,734	20,331	28,202	...	...	63	52
	†	10,937	...	8,894	...	2,043	...	...	...	81	...
	‡	51,894	...	36,612	...	15,282	...	...	...	70	...
Gorakhpur	*	1,08,877	91,598	72,597	45,673	36,280	45,925	...	...	67	50
	†	8,712	...	12,599	...	...	...	3,887	...	144	...
	‡	1,13,448	...	97,091	...	16,357	...	...	...	84	...
Total ...	*	7,94,048	7,58,967	3,56,575	4,01,137	4,37,473	3,57,830	...	...	46	53
	†	1,50,290	...	81,421	..	77,869	...	...	...	51	...
	‡	7,50,226	...	3,75,645	...	3,74,581	...	...	...	49	...

* Financial year. † Three months' figures. ‡ Forest year.

It will be observed that though the revenue of the Kheri Division has fallen the expenditure has fallen still more, and if the revenue of Bahramghat, which receives its produce from Kheri be added to this Division, the gross income for the 12 months of the forest year would amount to over Rs. 4,25,000. As the Bahramghat Depôt is now closed, it will not be necessary to again revert to this subject; it should, however, be pointed out that a false credit of Rs. 69,225 was given to Bahramghat during the year for produce supplied to the Railway direct from Kheri, so that the financial figures entered against the latter Division are misleading.

57. The following statements give in a concise form the totals of Revenue and Expenditure by the Agency of extraction and main heads. They will serve for comparison with the forest year 1893-94, when it is wished to ascertain the method of working and the proportionate expenditure on timber and fuel operations and works of improvement.

I.—Receipts.

Year.	I. Timber and other produce removed from the forests by Government Agency.	II. Timber and other produce removed from the forests by purchasers.	III. Confiscated drift and waif timber.	IV. Revenue from forests not managed by Government.	V. Miscellaneous receipts.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1892-93	88,313	62,966	3,448	...	4,563	1,59,290
	4,10,519	3,11,685	9,738		18,284	7,50,226

II.—Expenditure.

A.—Conservancy and Works.

Year.	I. Timber and other produce removed from forests by Government Agency.	II. Timber and other produce removed from forests by consumers or purchasers.	III. Confiscated drift and waif wood	IV. Revenue from forests not managed by Government.	V. Rent of leased forests and payments to share-holders.	VI. Live stock stores, tools and plant.	VII. Communications and buildings.	VIII. Demarcations improvements and extention of of forests.	IX. Miscellaneous.	Total.
	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1892-93...	28,905	2,877	1,992	...	...	2,560	3,222	10,814	1,202	51,572
	1,45,879	8,941	5,134			9,039	31,147	49,784	8,602	2,58,526

III.

B.—Establishment.

Year.	I. Salaries.	II. Travelling allowances.	III. Contingencies.	Total.
	Rs.	Rs.	Rs.	Rs.
1892-93	23,009	4,606	2,234	29,849
	95,736	13,018	7,765	1,17,119

58. It will be seen that out of a total revenue of Rs. 9,09,516, Rs. 4,98,832 is due to departmental operations, and these, as far as timber is concerned, almost entirely

of past years. As before pointed out fuel operations still continue for the present to be conducted by Government Agency. On the other hand there is an increase of nearly Rs. 1,00,000 in the value of direct removals. The expenditure under the heads of improvement and protection were almost doubled during the year owing to the survey and permanent demarcation of the forests being taken in hand, whilst in spite of increased income and increased activity in improving the State Forests, establishments only increased by about Rs. 10,000, owing chiefly to the strengthening both of the permanent and temporary establishments. No detailed comparison by Divisions is possible in this report, but sufficient information has been given in former chapter to show what progress has been made during the year.

59. The value of stock and of outstanding at the close of the year are given below—

I.

Value of stock—	Rs.
On 1st April 1892	9,07,357
On 30th June 1893	7,23,982
Balance against the year ...	1,83,375

II.

Value of outstandings.	By Contractors.	On account of revenue.
	Rs.	Rs.
On 1st April 1892	65,882	36,524
On 30th June 1893	48,420	42,534
Balance for or against the year	− 17,462	+6,010

and the following table shows the value of the transactions of the past 15 months :—

	1891-92. Rs.	1892-93. Rs.
Cash surplus	+3,57,830	869
		+3,74,581
Decrease—		
Value of stock	—1,12,039	—1,83,375
Increase—		
Outstandings due.	+1,02,406	+ 90,954
Total ...	+3,48,197	+3,60,029

CHAPTER V.

FOREST ADMINISTRATION.

1. Establishment.

60. The following statement shows the charges held by the Controlling Staff of the circle throughout the year :—

Direction ...	Mr. S. Eardly-Wilmot, 1st July 1892 to 30th June 1893. " B. B. Osmaston, 3rd January 1893 to 30th June 1893. In charge of Working plan.
Pilibhit ...	Mr. W. Shakespear, Deputy Conservator, 1st July 1892 to 19th October 1892. " Keshavanand, Extra-Assistant Conservator, 20th October 1892 to 30th June 1893.
Bhira ...	" W. Shakespear, Deputy Conservator, 1st July 1892 to 20th August 1892. " M. Hill, Deputy Conservator, 21st August 1892 to 30th June 1893.
Kheri ...	" Ditto 1st July 1892 to 30th June 1893.
Bahramghat ...	" Har Swarup, Extra-Assistant Conservator, 1st July 1892 to 15th April 1893. " K. Nidhun Mukerji, Extra-Assistant Conservator, 16th April 1893 to 30th June 1893.
Bahraich ...	" B. A. Rebsch, Deputy Conservator, 1st July 1892 to 30th June 1893.
Gonda ...	" K. Nidhun Mukerji, Extra-Assistant Conservator, 1st July 1892 to 30th June 1893.
Gorakhpur ...	" L. Mercer, Deputy Conservator, 1st July 1892 to 30th June 1893.

There was no change in the staff during the year.

61. The statement below gives the sanctioned and actual expenditure in establishments :—

Year.	Executive and protective.			Office Establishment.		
	Permanent.	Temporary.	Actual Expenditure.	Permanent.	Temporary.	Actual expenditure.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1891-92	24,843	22,271	39,467	6,168	5,557	10,483
April to June 1892 ...	5,599	3,346	7,782	1,270	1,431	2,351
1892-93	32,287	17,222	46,704	6,261	8,429	12,425

62. Very considerable changes in the subordinate staff have taken place during the year. The number of Rangers has been raised from six to nine, of whom four hold the Rangers' Certificate of the Forest School and one the Foresters' certificate. One Forester was promoted in terms of section 29 (2) *a* Forest Department Code to the Rangers' grade as a reward for continuous good work in the Gorakhpur Division. The number of Foresters in the permanent establishment is eight below the sanctioned strength, solely for the reason that trained Foresters are not available, only one having been procured during the year.

Transfers of Rangers, Foresters, and guards, on a large scale, were carried out with good results. As pointed out last year the long continuance of these officials in one locality is objectionable in every way, and though transfers are apt to cause resentment and in some cases resignations, it is preferable to risk such unpleasantness and prevent the chance of the official position being utilized to unduly influence the tenantry.

Dismissals and other punishments, as also resignations, were somewhat common, but these are unavoidable when endeavouring to improve the state of discipline, for it is evident that if this attempt is to be successful each individual member of the staff must either improve or leave the service.

In Pilibhit, one Forester was permitted to resign and 11 Forest Guards, temporary and permanent, were dismissed for gross carelessness or other irregularities. Of the remainder a large proportion have been transferred to distant districts as it was found that their work in the district in which they were recruited was much hampered by their domestic and agricultural responsibilities.

In Kheri, one Forester was permitted to resign on account of detected irregularities in accounts, another was dismissed for gross neglect of duty in reference to a forest fire, and a third was reduced; whilst five Forest guards were dismissed for various irregularities, including theft and embezzlement, and two more were reduced.

In Bahraich one Forester was reduced and eight guards and orderlies were dismissed.

In Gonda, one Forester on the temporary establishment was permitted to resign, and 13 guards and orderlies were dismissed, four for gross misconduct, four for negligence of duty, four for overstaying leave, and one for being implicated in a criminal offence.

In Gorakhpur, one Forester and one Forest guard were dismissed for misconduct.

In Bahramghat, Babu Raghbar Dyal, was reverted to his post in the clerical establishment; his brother Badri Parshad was acquitted by the Sessions Judge of Lucknow on a charge of embezzlement and resigned, whilst other officials of the Depôt were reduced, transferred, or sent in their resignations. The Nepalese authorities have now, it is believed, taken up the case of the supposed theft of drift timber by the Bahramghat officials, and the issue of Government passes unentered in Government accounts, and it is hoped that some light may at last be thrown on the mystery of the disappearance of hundreds of Shisham logs belonging to Nepal Contractors.

It is confidently expected that the long list of punishments recorded during the last two years has now approached completion and that in future the staff will work more satisfactorily. It was absolutely necessary to check the irregularities common throughout the circle and these subordinates who risked dismissal rather than reform their ways have now disappeared from the Forest Staff.

63. The reorganization of the office staff of the circle is still pending and work has to be carried out under the same disadvantages which have before been reported on.

64. Three paid students from this circle were entertained at the Forest School, Dehra Dun, during the year. It is understood that for the present there will be no more vacancies to be filled up from the circle as 12 Rangers are already provided for against 15 proposed in the Reorganization Scheme.

2.—*General Administration.*

65. Various questions of General Administration have necessarily been touched on in the body of this report or have been noticed in the introductory paragraph; the changes in the method of administration are below noted by divisions.

In Kheri the forests were divided into ranges and beats; and for the purpose of exploitation into Working Circles; the system of timber exploitation was changed from selection fellings of sound trees into improvement fellings by area; the system of extraction was altered from Departmental working to that of direct removals by purchasers. Fuel operations were extended and systematized by proposals for the regular working of the Bhira Forests. The method of Fire Conservancy was changed entirely and broad clear cut fire lines constructed; the charge of drift operations on certain rivers in the province were entrusted to the Divisional Officer; and finally, the permanent demarcation of the State Forests with numbered stone pillars was arranged for.

In **Bahraich** and **Gonda** the changes were not so marked, because in the former Division the tendency had for some years past been to discourage departmental operations, but in both Divisions the organization of protective charges, improvement in Fire Conservancy, arrangements in the control of drift operations together with the demarcation of the forests were taken in hand.

In **Gorakhpur** the establishment underwent complete reorganization both in the forest and on drift operations, whilst improved arrangements in Fire Conservancy, in opening up of hitherto unexploited forests, in defining the areas open to grazing and the protective charges of the subordinates, occupied much of the Divisional Officer's time with advantage to the forests.

In **Pilibhit** similar improvements took place.

66. The relations between the District Officers and Divisional Forest Officers were good, and much help in forest matters was afforded of important administrative matters still under settlement may be mentioned.

1. The exchange of lands with the Khairigarh Estate mentioned in para. 32 which is not yet finally completed.

2. The closure to cattle of the Sál forests of the Kanjaria Working Circle, Kheri Division, which has been sanctioned since the close of the year.

3. The exchange of closed grass plains in the Bhira Range with equal areas of open tree forest to facilitate grazing and improve tree growth in open areas.

4. The definition of privileges in amount and locality in Bhira, Bhinga and Chakkia Charda.

5. The realignment of the intricate boundaries in Gonda and Charda.

6. The settlement of the claims of the Balrampur estate in reference to privileges in the Gonda forests.

7. The revision of drift rules on the Great Gandak river and of the rules regulating the transport of forest produce by water.

When these important questions have been finally decided the position of the State Forests in Oudh will be much improved and exploitation of forest produce will be on a more definite footing.

General Remarks.

67. The Railway from Mailani to Dudna was opened during the year and will be continued to Sonaripur, the site of the fellings next cold weather. Nothing has been done in the matter of the construction of the Nanpara-Kateniaghát line, but a line from Gonda to Balrampur is under survey which, when constructed, will much facilitate export from the forests of that estate.

68. The health of the establishment was good during the year as compared with other seasons when cholera and fever are frequently rife.

69. Divisional Officers generally speak well of the subordinate staff, with the exception of those individuals whom it was necessary to dismiss or otherwise punish. The office establishments worked well and energetically. The necessary reforms in office business have been carried out, entailing at the time much extra labor on the staff, and at present it may fairly be said that Divisional Offices, are in good order, though the question of punctuality still needs some attention. The revision of the stock and stock returns was also taken in hand with good results.

70. The Conservator has nothing but praise to record in favor of the Divisional Officers of this Circle, who have entered with zeal and energy into the improvements required both in working and protecting the forest under their charge, and this has, it is thought, been amply proved by the details of the working of the various Divisions as set forth in this report.

S. EARDLEY-WILMOT,
Conservator of Forests, Oudh Circle,
N.-W. P. and Oudh

NAINI TAL:
Dated 26th September 1893.

ANNUAL STATEMENTS

AND

APPENDICES.

[Form No. 46.

FOREST DEPARTMENT, OUDH CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

AREA OF RESERVED FORESTS, PROTECTED FORESTS, AND UNCLASSED STATE FORESTS, AND WASTE LANDS, 1892-93.

Division.	Range.	Civil District or territory.	Name of Forest.	Area on 1st July 1892.		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1893.		No. and date of Notification of addition or transfer, &c.	Remarks.
				Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
1	2	3	4	5	6	7	8	9	10	11	12
				Reserved forests.							
Pilibhít ...	Pilibhít ... Mainakote ... Dhanaraghat ...	Pilibhít ...	Pilibhít ... Mainakote ... Dhanaraghat ...	96,352	150	*468	...	96,820	151	No. 378F. / 480A.-III of 6th May 1893.	*Declared to be Reserved Forests from 1st June 1893.
Bhira ...	Kishanpur ... Mailani ... Gola ...	Kheri ...	Kishanpur ... Mailani ... Gola ...	96,454	151	...	†96,454	...	...		
Kheri ...	Kanjaria ... Dudua ... Khairigarh ... Bhera. ...	Kheri ...	Kanjaria ... Dudua ... Khairigah ... Bhera ...	1,81,922	284	†96,454	...	2,78,446	435	No. 531F. / 438.A.-II of 23rd June 1892.	†Excluded from Bhira and added to Kheri.
Bahraich ...	Motipur ... Chakia Charda Bhinga ...	Bahraich ...	Motipur ... Chakia Charda Bhinga ...	2,09,155	327	‡2,421	...	2,11,576	331	No. 398F / IV-14A.-89 of 10th May 1893.	‡Declared to be reserved from 15th June 1893.
Gonda ...	Nawábganj ... Barhawa ... Tulsipur ... Bhambhar ...	Gonda ...	Nawábganj ... Barhawa ... Tulsipur ... Bhambhar ...	99,079	155	...	...	99,079	155		
Gorakhpur ...	Northern ... Central ... Southern ...	Gorakhpur ...	Northern ... Central ... Southern ...	1,08,938	170	...	§494	1,08,444	169	...	§Shown in previous returns by mistake under Reserved Forests, now transferred to Unclassed State Forests.
			Total ...	7,91,970	1,237	99,343	96,948	7,94,365	1,241		

Unclassed State Forests.

Pilibhít ...	...	Pilibhít ...	One-third of mauza Baibaha.	468	1	...	*468	...	...	No. 378F. / 480A.-VII of 6th May 1893.	*Declared Reserved Forests from 10th June 1893.
Bahraich ...	Motipur ...	Bahraich ...	Motipur ...	2,421	4	...	*2,421	...	...	No. 398F. / IV-14A.-89 of 10th May 1893.	
Gorakhpur ...	Southern ...	...	Rámgarh ...	...	...	5	...	5	2	No. 201F. / 551A 7, of 1st March 1893.	
	Northern ...	Gorakhpur ...	Arazi Tulsi Rám	...	...	1,369	...	1,369			
...	...	...	Kishanpur Bishannathpur or Chaukighat and Rájgarh within the majhor No. 170, Government Reserves.	...	...	148	...	148		No. 631F. / 603A.-4 of 21st July 1893.	
...	...	...	Jungle Farzand Ali, in Dudhai Forest Reserves.	...	...	494	...	494	1	No. 317F. / 276A.-2 of 23rd April 1891.	
			Total ...	...	...	2,016	...	2,016	3		
			Total of Unclassed Forests.	2,889	5	2,016	2,889	2,016	3		
			GRAND TOTAL...	7,94,859	1,212	1,01,359	99,837	7,96,381	1,244		

Abstract of changes during the year.

Reserved Forests—			*Acres.*
Area at commencement of the year			7,91,970
ADDED—By transfer from Unclassed State Forests, Pilibhít	468	99,343	
Bahraich	2,421		
By transfer from Bhira to Kheri	96,454		
EXCLUDED—By transfer to Kheri from Bhira ...	96,454	96,948	
By transfer to Unclassed State Forests ...	494		
Net increase			2,395
Area at close of the year			7,94,365

Abstract of changes during the year.

Unclassed State Forests—			*Acres.*
Area at commencement of the year			2,889
ADDED—To correction of previous returns	494	2,016	
To acquired by purchase	153		
To correction of area	1,369		
EXCLUDED			2,889
Net decrease			873
Area at close of the year			2,016

NAINI TAL,
The 26th September 1893.

S. EARDLEY-WILMOT,
Conservator of Forests, Oudh Circle.

[Form No. 47.

FOREST DEPARTMENT, OUDH CIRCLE, NORTH WESTERN PROVINCES AND OUDH.

STATEMENT SHOWING THE PROGRESS MADE IN, AND THE EXPENDITURE INCURRED ON, FOREST SETTLEMENTS DURING 1892-93.

Name of Forest Division.	Name of Civil District or Teritory.	Area already settled at commencement of the year.	Areas finally settled during the year.						Areas undergoing settlement.						Remarks.
			Number and date of Government order according final sanction to the Settlement	Name of Forest settled.	Area in square miles.	Expenditure incurred during the year on areas finally settled.		Entire cost per square mile of areas finally settled during the year.	At commencement of the year.		Taken in hand during the year.		Expenditure incurred during the year on areas undergoing Settlement.		
		Sq. Ms.				In Forest accounts.	In other accounts.		Name of tract.	Area in square miles.	Name of tract.	Area in square miles.	In Forest accounts.	In other accounts.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
						Rs.	Rs.	Rs.					Rs.	Rs.	
Pilibhit ...	Pilibhit ...	150	378 F. / 480 A 111 of 6-5 93.	Baibaha ...	1	...	...	...	Baibaha ...	1	...	...	...	...	
Kheri ...	Kheri ...	435	...	...	...	...	...	...	...	...	...	...	...	...	Under Notification No. 320 F. / 291 A-15 of 19th April 1893, a certain area to be taken in exchange is under Settlement.
Bahraich ...	Bahraich ...	327	398 F. / IV. 14 A 89 of 10-5-93	Motipur ...	4	...	...	...	Motipur ...	4	...	...	...	...	
Gonda ...	Gonda ...	155	...	...	...	...	...	...	...	...	...	...	...	...	
Gorakhpur ...	Gorakhpur ...	169	...	...	...	...	...	...	...	...	Dudhai ... Domakhand ... Kishunpur ... Bishunathpur or Chauki ghat Rájgarh.	3	2,762	...	Notification Nos. 201 F. / 537 A-7 and 631 F / 603 A-4 of 1st March 1893 and 21st July 1893, respectively.
	Total ...	1,236	...	...	5	...	...	...	...	5	...	3	2,762	...	

NAINI TAL,
The 26th September 1893.

S. EARDLEY-WILMOT,
Conservator of Forests, Oudh, Oudh Circle.

FOREST DEPARTMENT, OUDH CIRCLE, NORTH-WESTERN PROVINCES AND OUDH. [Form No. 48.

RECORD OF DEMARCATION AND MAINTENANCE OF BOUNDARIES, 1892-93.

Division.	Length of boundaries artificially demarcated during the year.	Length of previously existing boundaries repaired.	Length of previously existing boundaries not repaired.	Total length of artificially marked boundaries at the close of the year.	Length of boundaries not demarcated at the close of the year.	Length of natural boundaries not requiring artificial marks.	Total length of boundaries at the close of the year.	Expenditure on demarcation during the year.		Remarks.
								On new work.	On repairs.	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Rs.	Rs.	
Reserved Forests.										
Pilibhit	...	35	82	117	...	21	138	63	663	These figures are not trustworthy. They are estimated and must so remain until the Forest Survey is complete.
Kheri	...	...	334	334	...	118	452	1,875	3	
Bahraich	...	...	293	293	...	19	3[illegible]3	4,875	497	
Gonda	...	96	94	190	...	32	222	848	2	
Gorakhpur	...	...	165	165	...	129	294	40	...	
								1,605		
Total	...	131	968	1,099	...	310	1,409	40 / 9,316	2 / 1,557	
Unclassed Forests.										
Gorakhpur	...	...	14	14	...	11	25	...	...	
Grand Total ...	...	131	982	1,113	...	321	1,434	40 / 9,376	2 / 1,557	

NAINI TAL,
The 26th Sept. 1893.

S. EARDLEY-WILMOT,
Conservator of Forests, Oudh Circle.

[Form No. 49.

FOREST DEPARTMENT, OUDH CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

STATEMENT OF FOREST AREAS SURVEYED AND UNDER SURVEY DURING THE YEAR 1892-93.

Division.	Areas surveyed and under survey during the year.																								Areas remaining to be taken under Survey.	Total Forest-area at end of the year, as per Form No. 46.	Cost.			Remarks.
	Special surveys—Maps on 1" scale or over, by Survey of India Department or Forest Survey Branch.								Ordinary, included in District Survey.								Chain and compass or other surveys by local officers.													
	With interior details.					Boundary surveys.			With interior details.					Boundary surveys.			With interior details.					Boundary surveys.							
	With details of growing stock.		Without details of growing stock.						With details of growing stock.		Without details of growing stock.						4 inch or over.		Under 4 inch.										
	Previous.	Of the year.	Previous	Of the year.	Total cost.	Previous.	Of the year.	Total cost.	Previous.	Of the year.	Previous.	Of the year.	Total cost.	Previous.	Of the year.	Total cost.	Previous.	Of the year.	Previous.	Of the year.	Total cost.	Previous.	Of the year.	Total cost.			Previous.	Of the year.	Entire cost of all surveys to end of the year.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
				S. M.	Rs.															S.M.	Rs.			Rs.	S. M.	Sq. M.		Rs.	Rs.	
Pilibhit	...	...	...	151	3,379	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	1	...	151	...	3,380	3,380	
Kheri Cis-Sarda ...	...	...	...	98	1,661	...	...	...	...	...	..	...	...	...	...	...	...	..	...	...	...	...	...	...	53	151	...	1,661	1,661	
Kheri Trans-Sarda ...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	284	284	...	...	...	
Bahraich	...	...	...	...	...	...	...	..	..	..	...	...	...	.	...	...	...	...	...	...	...	...	...	...	331	331	...	...	...	
Gonda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	1	12	...	...	...	155	155	...	12	12	
Gorakhpur ...	...	...	...	...	...	...	..	..	...	..	...	...	...	...	...		..	...	...	.	27	...	...	..	169	169	...	27	27	
Total ...	...	...	...	249	5,040	..	...	...	...	...	...	...	...	...	...	...	...	.	...	1	39	...	...	1	992	1,241	...	5,080	5,080	
	Unclassed Forests.																													
Gorakhpur ...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	3	3	...	...	...	
Total ...	...	...	...	249	5,040	...	...	...	...	...	...	...	...	..	...	...	..	...	...	1	39	...	...	1	995	1,244	...	5,080	5,080	

NAINI TAL,
The 26th September 1893.

S. EARDLEY-WILMOT,
Conservator of Forests, Oudh Circle.

[Form No. 50

FOREST DEPARTMENT, OUDH CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

PROGRESS MADE IN WORKING-PLANS, 1892-93.

Division.	Areas for which Working-Plans have been completed.		Areas for which Working-Plans are being compiled.		Areas for which Working-Plans have still to be taken in hand.	Total Forest area, as in Form No. 46.	Entire cost, per square mile, of Working-Plans completed.	Remarks.
	At commencement of the year.	During the year.	At commencement of the year.	Taken in hand during the year.				
1	2	3	4	5	6	7	8	9
	Sq. ms.	Sq. ms.	Sq. ms.	Sq. ms.	Sq. ms.	Sq. ms.	Rs.	
				Reserved Forests.				
Kheri...	...	284	...	151	...	435	18	Various Working-Plans for the Trans-Sarda Forests have been made since 1879. The cost entered is that for the present sanctioned plan.
Bahraich	...	...	...	331	...	331	...	
Gonda	...	...	...	19	136	155	...	
Pilibhít	...	...	...	68	83	151	...	
Gorakhpur	...	...	..	169	...	169	...	
Total ...	...	284	...	738	219	1,241	18	
				Unclassed Forests.				
Gorakhpur	...	...	..	3	...	3	...	
Grand Total ...	...	284	...	741	219	1,244	18	

NAINI TAL,
The 26th September 1893.

S. EARDLEY-WILMOT,
Conservator of Forests, Oudh Circle.

[Form No. 51.

FOREST DEPARTMENT, OUDH CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

COMMUNICATIONS AND BUILDINGS DURING 1892-93.

Division.	New work undertaken during the year.						Repairs executed during the year.						Remarks.
	Buildings.		Roads and paths.				Buildings.		Roads and paths.				
	Description of building.	Expenditure incurred.	Road or path and object of the same.	Length of road or path.	Expenditure incurred.	Total expenditure on new work.	Nature of repairs.	Expenditure incurred.	Nature of repairs.	Length repaired.	Expenditure incurred.	Total expenditure on repairs.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
		Rs.		Miles.	Rs.	Rs.		Rs.		Miles.	Rs.	Rs.	
Pilibhit.	Burgad Chauki ...	57		...	...	57	Retlatching ...	187					
		24				24		233					
	Nawadia „ ...	172		...	...	172	Annual repairs ...	82	Annual repairs of 15 feet broad roads ...	137	429	...	
	Purampur „ ...	280		...	...	280		270	Annual repairs of 8 feet paths ...	23	50	...	
	Mewatpura „ ...	69		...	...	69	Renewing roof of house at Mustafabad ...	75	Renewal of Mala culvert,	...	75	...	
	Temporary outhouses and revenue chaukis ...	8				8	Dismantling ...	10					
		81				80		1					
		65				65		279				279	
		625		...	...	625		577		160	554	1,131	
Kheri.	Rangers' quarters ...	52					Repairing and white-washing two rest-houses ...	81	Repairing roads ...	51	314	395	
		224											
	Dudua kitchen ...	156											
	Divisional office, Lakhimpur	942									78	202	
	Jamnahia chauki ...	87					Do. nine buildings ...	124	Do. ...	91	642	1,173	
	Lakhimpur latrine ...	69				52		531					
	Bricks	127				1,610	Do. six buildings ...	43				43	
	Chandan Chauki rest-house	52					Do. nine buildings ...	256	Do. ...	114	695	951	
		52				52		131	Do. ...	66	39	170	
	Bricks	36				98		384			487	871	
	Mailani rest house ...	487				487							
		104				104		298		322	117	415	
		2,195		...	...	2,195		1,252			2,138	3,390	

BAHRAICH.	...	...	Metalling Bahraich rest-house road ...	624 ft.	238	238	Whitewashing and miscellaneous repairs of 13 buildings ...	328	Clearing grass over roads and ditching, including repairs to ten bridges.	246	2,288	...
							Renewal of ceilings and punkhas, etc. ...	225				
				624 ft.	238	238		553		246	2,288	2,811
GONDA.	2nd class rest-house and outhouses, Pipra ...	32		M. F.						M. F.		
	2nd class rest-house and outhouses, Birpur ...	459	20′ broad Jarupunia road,	3 4	110	...	Usual annual repairs to 32 buildings ...	69	Usual annual repairs to 78·7 miles of road ...	11 2	47	...
	2nd class rest-house and outhouses, Sungarha ...	835	15′ broad chawki road ...	0 6	7	...	Establishment on maintenance ...	528		147 0	558	...
	Forest Guards' Chauki, Birpur	25	20′ Jerwa road ...	0 1	3	...		68			1	...
	Forest Guards' Chauki, Chandanpur ..	188	Line in Jaipur ...	1 2	20	...		324	Repairing bridge ...	...	9	...
	Two elephants' sheds at Janakpur and Rámgarh,	64	Preparing Sonaldi bridge on Bhamber road ...	...	126	...						
		57				57		137		11 2	48	185
		1,532		5 5	266	1,898		852		147 0	567	1,419
GORAKHPUR.	Headquarters bungalow ..	4,245		...	...	4,245						
	Kitchen and servants' quarters	339				339	Office building at Gorakhpur	13		...	...	13
	Divisional Forest Office ..	1,160	West to east Bilhanpur forests	2·70		1,160		13		...	...	13
		5,744	North to south Bilhanpur forests	1·30	325	5,744 661						
	Rámgarh stable ...	331	Chauk to Dailbar for inspection purposes ...	5·30	132	...	Annual repairs of rest-houses, depôts and chaukis, stable for elephant, and outhouses.	430	Old roads.	25	443	...
	Pharenda depôt ...	5	Chaukighat to Sakni for inspection purposes ...	3·63	73	...						
			Sakhni to Ganeshpur for inspection purposes ...	4·95	350	...						
			Barghar Singh Das to Deohaghat for inspection purposes ...	1·62	13	598						
			Tirmohani Jagpur road...	3·01	160	...						
	Lachmipur outoffice ...	8	Lachmipur to Baghar Singh Das ...	2·22	165	464						
	Pakri outhouses ...	131										
								413		25	443	886
BAHRÁMGHAT.		6,219		24·73	1,248	7,467						
		...		...	...	...	Repairing and whitewashing, &c.	260	Maintenance of depôt roads	0 6	181	441

NOTE.—The figures in this Form cannot agree with totals under A VIIa. and A VIIb. for in the former the expenditure on bridges is included and in the latter that on chaukidárs and rest-house furniture.

NAINI TAL,
The 26th September 1893.

S. EARDLEY-WILMOT,
Conservator of Forests, Oudh Circle.

[Form No. 52.

FOREST DEPARTMENT, OUDH CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

REGISTER OF BREACHES OF FOREST RULES DURING 1892-93.

Forest Division.	Cases pending from 1891-92.	New cases of the year.					Total cases.	Disposed of during the year.						Cases pending at close of year.
		Injury to forest by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission, or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.		Convictions.		Acquittals.		Total.		
								Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Pilibhit ... ... A ...	1/1	3/1	0/4	0/1	...	3/6	4/6	3/4	3/27	1/2	1/8	4/6	4/35	...
B ...	0/1	...	0/1	0/3	...	0/4	0/5	0/5	0/8	...	...	0/5	0/8	...
C ...	...	0/3	...	...	...	0/3	...	...	...	...	...	...	...	...
Total ...	1/1	3/4	0/5	0/4	...	3/13	4/11	3/9	3/35	1/2	1/8	4/11	4/43	...
Kheri ... ... A ...	...	0/6	0/5	1/0	1/0	0/6	0/6	0/5	0/5	0/1	0/1	0/6	0/16	...
B ...	...	1/0	1/5	4/6	...	7/11	7/11	7/10	18/59	0/1	0/2	7/11	8/61	..
C ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	...	1/0	1/10	4/7	1/0	7/17	7/17	7/15	18/64	0/2	0/3	7/17	18/67	...

Bahraich ...	A ...	...	...	1/16	3/53	...	4/69	4/69	4/66	8/123	0/3	0/5	4/69	8/128	...
	B ...	...	...	1/8	2/—	...	3/8	3/8	3/8	3/10	...	...	3/8	3/10	...
	C ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total ...	...	...	2/21	5/53	...	7/77	7/77	7/74	11/133	—/3	—/5	7/77	11/138	...
Gonda ...	A ...	...	0/3	0/5	4/5	...	4/13	4/13	4/9	7/9	0/3	0/5	4/12	7/14	0/1
	B ...	..	2/3	6/24	4/9	...	12/36	12/36	12/36	20/56	...	...	12/36	20/56	...
	C ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total ...	...	2/6	6/29	8/14	...	16/49	16/49	16/45	27/65	0/3	0/5	16/48	27/70	0/1
Gorakhpur ...	A ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	B ...	...	0/1	0/7	...15	...	0/23	0/23	0/10	0/44	0/1	0/9	0/11	0/53	0/12
	C ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total ...	...	0/1	0/7	0/15	...	0/23	0/23	0/10	0/44	0/1	0/9	0/11	0/53	0/12
Grand Total ...	A ...	1/0	3/4	1/30	7/60	...	11/94	12/94	11/84	18/164	1/9	1/19	12/93	19/183	0/1
	B ...	0/1	3/4	8/45	10/33	1/0	22/82	22/83	22/69	41/177	0/2	0/11	22/71	41/188	0/12
	C ...	...	0/3	...	...	...	0/3	...	...	...	...	...	...	...	...

N. B.—A. Means cases taken into Court.
B. Means cases disposed of under section 67 of Indian Forest Act, 1878.
C. Means undetected cases.

NAINI TAL,
The 26th September 1893.

S. EARDLEY-WILMOT,
Conservator of Forests, Oudh Circle.

[Form No. 53.

FOREST DEPARTMENT, OUDH CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

AREA OF FOREST TRACTS PROTECTED FROM FIRE DURING 1892-93.

Division.	Forest tracts.	Year in which protection commenced.	Area during 1891-92.	During dry season of 1893. Area attempted to be protected.	Failures.	Area actually protected.	Cost.	Remarks.
				Closed reserves.				
Pilibhít ...	North Pilibhít	1880	10,802	10,713	10,517	9,196		
	East "	"						
	South-east "	"						
	Maina Ket	1881	1,349	16,594	2,559	14,035		
	Dhanaraghát	1886	6,097	6,229	...	6,229		
	Total ...	...	18,239	42,536	*13,076	29,460	...	* 137 acres deducted for fire lines.
				Restricted reserves.				
	West Pilibhít	1892	5,915	6,617	196	6,421		
	South-west "	"	2,091	2,229	2,032	197		
	The 12 restricted compartments in parganah Puranpur ...	1893	...	21,576	†3,066	18,510	...	† 20 Ditto.
	Total ...	...	8,009	30,422	5,294	25,128	...	
	GRAND TOTAL ...	...	26,248	72,958	18,370	54,588	1,537	
				Area closed to fire and grazing.				
Kheri ...	Kanjaria range	1887	5,381	5,381	...	5,381		
	Dudua "	1872-1876	22,739	22,739	...	22,739		
	Khairigarh "	1889-1887	43,571	43,571	...	43,571		
	Bhira "	1877-1885 1886-1888 1890	43,215	43,289	3,530	39,759		
	Total ...	...	114,936	114,971	3,530	111,441		
				Area closed to fire alone.				
	Kanjaria range	1891	19,342	19,342	133	19,209		
	Dudua "	"	20,072	20,072	10	20,062		
	Khairagarh "	"	12,549	12,549	...	12,549		
	Bhira "	"	41,244	50,439	9,525	4 ,914		
	Total ...	...	93,207	102,402	9,668	92,734		
	GRAND TOTAL ...	...	208,143	217,373	13,198	204,175	10,384	

				Motipur range.				
Bahraich ...	Nishangara (closed) ...	1878	21,120	21,120	...	21,120		
	Ditto (rest of forests) ...	"	5,120	5,120	...	5,120		
	Dharmanpur (closed) ...	1885	1,280	1,280	...	1,280		
	Ditto (open) ...	"	1,920	1,920	...	1,920		
	Salarpur ...	"	1,280	1,280	...	1,280		
	Dharmanpur (rest of forests) ...	"	4,480	4,480	...	4,480		
	Murtiha (closed) ...	"	17,280	17,280	90	17,190		
	Bamboo (closed) ...	1881	640	640	...	640		
	Babai (closed) ...	1886	3,840	3,840	...	3,840		
	Ditto (rest of forests) ...	"	5,760	5,760	...	5,760		
	Bardia (open forests) ...	1887	2,240	2,240	...	2,240		
	Total ...	...	64,960	64,960	90	64,870		
				Chakia Charda range.				
	Chakia (closed forests) ...	1885	5,120	5,120	...	5,120		
	Ditto (open forests) ...	"	9,565	9,600	...	9,600		
	Charda (closed tract No. I) ...	"	1,485	1,560	...	1,560		
	Ditto (ditto " II) ...	"	880	880	...	880		
	Ditto (ditto " III) ...	"	400	400	...	400		
	Ditto (open forests) ...	"	5,450	5,480	...	5,480		
	Total ...	...	22,900	23,040	...	23,040		
				Bhinga range.				
	Kakardari (closed) ...	1875	22	22	...	22		
	Asneria (ditto) ...	"	16	16	...	16		
	Shahlalganj (compartment 3) ...	1884	784	784	...	784		
	Kakardari (rest of forests) ...	1877	10,058	10,058	...	10,058		
	Bhartha block (compartment 5) ...	1884	1,565	1,565	...	1,565		
	Ditto (rest of forests) ...	1878	13,795	13,795	...	13,795		
	Ponsonhyganj (compartment 3) ...	1875	1,560	1,560	...	1,560		
	Ditto (ditto 4) ...	1878	1,450	1,450	...	1,450		
	Ditto (rest of closed tract) ...	1885	5,025	5,025	...	5,025		
	Ditto (open forests) ...	...	4,765	4,765	...	4,765		
	Gubhapur (closed) ...	1886	10,880	10,880	750	10,130		
	Ditto (open) ...	"	7,040	7,040	...	7,040		
	Soupathri (closed) ...	"	3,200	3,200	...	3,200		
	Ditto (open) ...	"	9,600	9,600	...	9,600		
	Total ...	...	69,760	69,760	750	69,010	...	
	GRAND TOTAL ...	...	1,57,620	157,760	840	156,920	4,315	

[Form No. 53.

FOREST DEPARTMENT, OUDH CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

AREA OF FOREST TRACTS PROTECTED FROM FIRE DURING 1892-93.

Division.	Forest Tracts.	Year in which protection commenced.	Area during 1891-92.	During dry season of 1893.			Cost.	Remarks.
				Area attempted to be protected.	Failures.	Area actually protected.		
	Barehwa range.							
Gonda ...	Pipra	1880	4,136	4,583	...	4,583		
	Khirman	"	4,499	4,730	...	4,730		
	Tikuligarh	"	4,564	4,564	...	4,564		
	Rahtawal	"	4,687	4,687	...	4,687		
	Barehwa	"	4,143	4,143	...	4,143		
	Bhadwa	"	5,279	5,279	...	5,279		
	Tulsipur range.							
	Nand Mahra	1880	3,337	3,337	...	3,337		
	Bhainsasur	"	5,647	5,647	...	5,647		
	Baghel Khand	"	2,031	2,031	...	2,031		
	Odeypur	"	1,748	1,748	...	1,748		
	Newalgarh	"	2,708	3,238	9	3,229		
	Janakpur	"	1,964	1,964	...	1,964		
	Jeroa	"	4,451	4,451	2	4,449		
	Sungarha	"	4,371	4,371	...	4,371		
	Mansurwa	"	1,957	2,007	...	2,007		
	Bhambar range.							
	Sakra	"	4,462	4,462	25	4,437		
	Rajderwa	"	1,719	1,719	...	1,719		
	Bhusahar	"	2,875	2,875	...	2,875		
	Chandanpur	"	4,827	4,827	...	4,827		
	Narewha	"	4,794	4,911	63	4,848		
	Birpur	"	3,175	3,175	...	3,175		
	Marni	"	3,562	3,703	...	3,703		
	Kanchanpur	"	4,321	4,321	...	4,321		
	Nawganj range.							
	Jaipur (Andhwa)	"	216	216	...	216		
	Ditto (Bhainsahwa)	"	318	318	...	318		
	Shambhoo Nagar	"	459	459	...	459		
	Ramgarh	"	2,545	2,553	1	2,552		
	Debi Nagar	1891	448	448	42	406		
	Janki Nagar	1882	1,039	1,279	340	939		
	Lower Manwar	"	1,990	2,650	1,526	1,124		
	Upper ditto	"	2,060	2,810	...	2,810		
	Ashrafabad	1887 and 1891	1,483	1,483	58	1,425		
	Total ...	...	95,815	99,079	2,066	97,013	1,214	

						Southern range.			
Gorakhpur ...	Rámgarh ...	...	...	...	...	4,609·61	4,609·61	120	4,489·61
	Tilkonia ...	...	...	...	...	1,857 25	1,857·25	...	1,857·25
	Bhilampur ...	...	...	...	...	2,133·09	2,133·09	...	2,133·09
	North Banki ...	...	...	...	...	891·63	891·63	...	891·63
	South Banki ...	...	...	...	...	1,274·01	1,274·01	...	1,274·01
	Bhari Babban...	...	...	...	...	1,883·71	1,883·71	...	1,883·71
	Bhari Baisi ...	...	...	...	...	4,109·79	4,109·79	...	4,109·79
	West Lehra No. 2	...	...	...	...	433·00	433·00	...	433·00
	Ditto No. 1	...	...	...	...	11,532·28	11,757·28	...	11,757·28
						Central range.			
	Dudhai	...	...	...	...	9,947·90	9,947·90	4	9,943·90
	East Lehra	...	...	...	...	8,094·61	8,094·61	...	8,094·61
						Northern range.			
	Sonari	...	...	...	...	25,029·06	22,753·06	...	22,753·06
	Nagwa ...	...	...	...	...	15,174·04	8,604 04	5	8,599·04
	Sakhui Sissu plantation	...	...	...	...	2,180·00	2,206·00	...	2,206·00
				Total	...	89,149·50	80,555·	129	80,426·
				GRAND TOTAL	...	5,76,976	6,27,725	34,603	5,93,122

1875	4,609·61	1,656
1886	25,029·06	1,334
...	9,947·90	2,469
...	8,094·61	
...	89,149·50	5,459
...	5,76,976	22,909

NAINI TAL,
The 26th September 1893.

S. EARDLEY-WILMOT,
Conservator of Forests, Oudh Circle.

[Form No. 54.

FOREST DEPARTMENT, OUDH CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

AREA CLOSED AND OPEN TO GRAZING DURING 1892-93.

Division.	Area in square miles.						Remarks.
	Closed to all animals.		Closed to browsers (camels, goats or sheep).		Open to all animals.	Total area.	
	Whole year.	Part of year.	Whole year.	Part of year.	Whole year.		
1	2	3	4	5	6	7	8
			Reserved Forests.				
Kheri	* 192	...	...	...	243	435	* Increase of 8 square miles due to revision of area.
Bahraich	121	...	...	...	210	331	
Gonda	82	...	...	...	73	155	
Pilibhít	68	35	...	...	48	151	
Gorakhpur	† 125	...	...	...	44	169	† Increase of 67 square miles owing to incorrect figures of last year.
Total ...	588	35	...	...	618	1,241	
			Unclassed Forests.				
Gorakhpur	1	...	...	...	2	3	
GRAND TOTAL ...	589	35	...	...	620	1,244	

NAINI TAL,
The 26th September 1893.

S. EARDLEY-WILMOT,
Conservator of Forests, Oudh Circle.

From No. 55.

FOREST DEPARTMENT, OUDH CIRCLE., NORTH-WESTERN PROVINCES AND OUDH.

RETURN OF GRAZING IN THE ESTATE FORESTS DURING 1892-93.

Division.	Grazing on payment. At full rates. Buffaloes.	Cows and Bullocks.	Goats and Sheep.	Camels.	Other animals.	Fees received.	Number of Animals. At privilege rates. Buffaloes.	Cows and Bullocks.	Goats and Sheep.	Camels.	Other animals.	Fees received. Actual.	Value at full rates.	Grazing free. By right under settlement. Buffaloes.	Cows and Bullocks.	Goats and Sheep.	Camels.	Other animals.	Value of fees at full rates.	Number of Animals. During pleasure of Government, or other-wise than under Settlement. Buffaloes.	Cows and Bullocks.	Goats and Sheep.	Camels.	Other animals.	Value of fees at full rates.	Total value of fees at full rates.	Grand total of value at full rates.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
						Rs.						Rs.	Rs.						Rs.						Rs.	Rs.	Rs.
Pilibhit	... / 15	... / 50	...	...	...	18	219 / 827	718 / 3,844	1 / 199	...	...	125 / 630	244 / 1,150	... / 3,353	... / 17,076	...	...	...	... / 5,047	...	...	...	...	...	...	... / 5,047	369 / 6,845
Kheri	403 / 4,230	2,853 / 19,080	... / 486	...	... / 15	496 / 3,987	... / 5,630	53 / 1,00,519	305 / 1,806	...	... / 46	3,061 / 15,947	*3,065 / *21,164	...	...	...	...	...	...	... / 1,251	... / 5,462	... / 889	...	...	... / 1,705	... / 1,705	6,622 / 42,803
Balraich... ...	65 / 2,134	301 / 19,393	0 / 7,215	...	...	106 / 6,366	216 / 21,318	322 / 86,286	... / 13,389	...	... / 987	125 / 16,630	168 / 27,863	...	...	...	...	...	...	...	...	...	...	...	...	...	401 / 50,859
Gonda	71 / 226	320 / 1,046	... / 988	...	... / 1	96 / 491	... / 1,630	... / 22,148	3 / 2,219	...	... / 14	... / 5,268	... / †6,608	...	...	...	...	...	...	...	...	...	...	...	...	...	96 / 12,367
Gorakhpur ...	183 / 5,365	1,430 / 33,915	...	...	...	359 / 9,759	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	359 / 9,759
Balrampur ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	672 / 11,970	4,904 / 74,084	... / 8,689	...	... / 17	1,059 / 20,321	435 / 32,435	1,093 / 2,12,817	306 / 17,610	...	... / 1,047	3,311 / 38,475	3,477 / 57,085	... / 3,353	... / 17,076	...	...	...	... / 5,017	... / 1,251	... / 5,462	... / 889	...	...	... / 1,705	... / 6,752	7,847 / 1,22,633

* The District Officer of Kheri does not give the detail of cattle on which the grazing outstandings Rs. $\frac{3,065}{6,568}$ were collected by him, so the value at full rates in column 14 cannot be correctly filled in.

† Includes Gonda share of revenue Rs. 1,211, on account of Balrampur grazing lease.

NAINI TAL:
The 20th September 1893.

S. EARDLEY WILMOT,
Conservator of Forests, Oudh Circle.

[Form No. 56.

FOREST DEPARTMENT, OUDH CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

AREA OF PLANTATIONS, 1892-93.

Division.	Name of Plantation.	Area in acres. On 1st April 1892.	Added during the year.	Excluded during the year.	Area on 30th June 1893.	Receipts. Of the year.	Charges. Of the year.	Remarks.
	Regular plantation.							
Kheri (Bhira) ...	Marka	32	...	...	32	...	2	
	Total ...	32	...	...	32	...	2	
Gorakhpur ...	Ráungarh	303	...	...	303	...	...	
	Sonari (Madhaulia)	100	...	...	100	...	15/5	There are large grass sales from these plantations.
	Sakhwi	2,206	...	...	2,206	...	55/43	
	East Lehra	40	...	...	40	...	13/25	
	Total ...	2,649	...	...	2,649	...	83/72	
	GRAND TOTAL ...	2,681	...	...	2,681	...	83/74	
	Cultural Operations.							
Kheri	Sarauta Sissu Plantation, Dudua, &c.	1	...	...	1	...	11	
	Do. do. do. low Ground	...	...	...	...	...	...	
	Sissu, Khair and Bamboos	30	...	...	30	...	...	
	Dadua Forest garden	2	...	...	2	...	28/77	
	Total ...	33	...	...	33	...	28/88	
Gonda	Nanda Mahra, Janakpur	1	...	...	1	...	1/29	
	Total ...	1	...	...	1	...	1/29	
	Total of Cultural Operations ...	34	...	...	31	...	29/117	
	GRAND TOTAL OF PLANTATION, CULTURAL OPERATIONS.	2,715	...	...	2,715	...	112/192	

NAINI TAL,
The 26th September 1893.

S. EARDELY-WILMOT,
Conservator of Forests, Oudh Circle.

[Form No. 57.

FOREST DEPARTMENT, OUDH CIRCLE, NORTH-WESTERN PROVINCES.

OUTTURN (IN CUBIC FEET, SOLID) OF TIMBER AND FUEL DURING THE YEAR 1892-93, AND AGENCY OF EXPLOITATION.

Division.	Timber in the rough; logs.				
	Government.	Purchasers.	Free grantees.	Rightholders.	Total.
	C.ft.	C.ft.	C.ft.	C.ft.	C.ft.
PILIBHIT.					
Improvement fellings	...	...	...	...	...
Unregulated fellings	548 / 138	... / 20	...	... / 20	548 / 178
Total ...	548 / 138	... / 20	...	... / 20	548 / 178
KHERI.					
Selection fellings	4,271 / 22,149	...	...	...	4,271 / 22,149
Improvement fellings	...	... / 34,697	...	...	... / 34,697
Unregulated fellings ... Green	1,010 / 43,051	5 / 72,129	...	...	1,015 / 1,15,180
Unregulated fellings ... Dry	...	273 / 15,223	...	...	273 / 15,223
Total ...	5,281 / 65,200	278 / 1,22,049	...	...	5,559 / 1,87,249
BAHRAICH.					
Selection fellings	...	... / 8,568	...	...	8,568
Improvement fellings	...	5,450 / 8,818	...	...	5,450 / 8,818
Unregulated fellings	88 / 6,107	1,78,541 / 1,53,822	... / 4,400	...	1,78,629 / 1,64,329
Total ...	88 / 6,107	1,83,991 / 1,71,208	... / 4,400	...	1,84,079 / 1,81,715
GONDA.					
Selection fellings	364 / 182	614 / 4,089	...	...	978 / 4,271
Improvement fellings	... / 561	...	...	...	... / 561
Coppice fellings	... / 466	...	...	...	... / 466
Unregulated fellings ... Green	... / 728	... / 110	...	...	... / 838
Unregulated fellings ... Dry	13 / 1,706	18 / 266	...	...	31 / 1,972
Total ...	377 / 3,643	632 / 4,465	...	...	1,009 / 8,108
GORAKHPUR.					
Selection fellings	...	...	...	...	...
Improvement fellings	...	...	...	...	...
Coppice fellings	...	...	...	...	...
Unregulated fellings	3,030 / 7,200	...	...	...	3,030 / 7,200
Total ...	3,030 / 7,200	...	...	...	3,030 / 7,200
GRAND TOTAL ...	9,324 / 82,288	1,84,901 / 2,97,742	... / 4,400	... / 20	1,94,225 / 3,84,450

FOREST DEPARTMENT,

OUTTURN (IN CUBIC FEET, SOLID) OF TIMBER AND FUEL DUR-

Division.	Timber in the rough; poles.					Sawn or squared timber.				
	Government.	Purchasers.	Free grantees.	Rightholders.	Total.	Government.	Purchasers.	Free grantees.	Right holders.	Total.
	C.ft.	C.ft.	C.ft.	C.ft.	C.ft.	C.ft.	C.ft.	C.ft.		C.ft.
PILIBHIT.						**I.—Reserved Forests.**				
Improvement fellings	...	...	...	...	...	...	...	...	...	...
Unregulated fellings	293	3,275	...	2,84,074	2,87,642	...	65	...	...	65
	547	2,379	...	3,61,544	3,64,470	...	99	...	...	99
Total ...	293	3,275	...	2,84,074	2,87,642	...	65	...	...	65
	547	2,379	...	3,61,544	3,64,470	...	99	...	...	99
KHERI.										
Selection fellings	...	...	...	...	...	...	...	...	...	...
Improvement fellings	...	...	...	...	...	2,915	11,523	...	...	14,438
		18			18	1,257	69,706			70,963
Unregulated fellings ... Green ...	2,016	2,126	1,29,312		1,33,754	...	...	...	...	...
	7,090	4,572	1,58,159	...	1,69,821	79				79
Unregulated fellings ... Dry ...	...	459		...	459	...	2,444	4,578	...	7,022
		1,819	...		1,819		1,734	11,999		13,733
Total ...	2,016	2,885	1,29,312	...	1,34,213	2,915	13,967	4,578	...	21,460
	7,090	6,109	1,58,159		1,71,658	1,336	71,440	11,999		84,775
BAHRAICH.										
Selection fellings	...	...	...	...	...	...	...	...	...	...
		3,983			3,983					
Improvement fellings	4,813	8,929	...	...	13,742	...	...	...	...	...
	2,967	26,412			29,379					
Unregulated fellings	1,390	53,386	3,57,116	...	4,11,892	...	...	...	...	...
	11,160	1,70,189	7,97,130		9,78,479					
Total ...	6,203	62,315	3,57,116	...	4,25,634	...	...	...	...	...
	14,127	2,00,584	7,97,130		10,11,841					
GONDA.										
Selection fellings.	...	...	...	...	...	...	...	...	...	...
Improvement fellings	...	...	...	...	...	...	...	...	...	...
	1,379				1,379					
Coppice fellings	19	...	...	...	19	...	...	...	...	...
	3,118				3,118					
Unregulated fellings ... Green ...	62	5,638	87,111	...	93,111	...	...	...	...	...
	500	9,678	62,799		72,977					
Unregulated fellings ... Dry ...	...	9	...	...	9	...	...	...	...	...
	209	776			985	41	357			398
Total ...	81	5,647	87,411	...	93,139	...	...	...	...	...
	5,206	10,451	62,799		78,159	41	357			398
GORAKHPUR.										
Selection fellings	...	...	...	...	...	...	...	...	...	...
Improvement fellings	18,348	...	...	...	18,348	...		...	...	...
Coppice fellings	...	...	...	...	...	...	...	...	...	...
Unregulated fellings	...	936	...	...	936	...	...	...	...	...
		21,570			21,570		...			
Total ...	...	936	...	...	936	...	...	...	...	...
	18,348	21,570			39,918					
GRAND TOTAL ...	8,593	75,058	5,73,839	2,84,074	9,41,564	2,915	14,032	4,578	...	21,525
	45,318	2,41,396	10,18,088	3,61,544	16,66,346	1,377	71,896	11,999		85,272

NAINI TAL,
The 27th September 1893.

[Form No. 57.

OUDH CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

ING THE YEAR 1892-93, AND AGENCY OF EXPLOITATION—(*concluded*).

Miscellaneous.					Fuel.					Total.
Government.	Purchasers.	Free grantees.	Right holders.	Total.	Government.	Purchasers.	Free grantees.	Right holders.	Total.	Outturn.
C.ft.	C.ft.	C.ft.	C.ft.	C.ft.	C.ft.	C.ft.	C.ft.	C.ft.	C.ft.	C.ft.
...	...	...	...	...	6,892	...	...	...	6,892	6,892
...	1,313	...	540	1,853	8,180	3,820	...	30,217	42,217	3,32,325
	3,264		1,333	4,597	43,737	14,071		1,63,218	2,21,026	5,90,370
...	1,313	...	540	1,853	8,180	3,820	...	30,217	42,217	3,32,325
	3,264		1,333	4,597	50,629	14,071		1,63,218	2,27,918	5,97,262
										4,271
...	...	...	...	...	...	...	...	...	...	22,149
17	...	...	...	17	15,351	...	...	...	15,351	29,806
104	3,477			3,581	5,56,550				5,56,550	6,65,809
					32,297				32,297	1,67,066
...	1,725	...	...	1,725	2,51,866	...	...	...	2,51,866	5,38,671
	...			...		8,610	51,073		59,683	67,437
...	20	...	...	20	...	29,507	1,26,541	...	1,56,048	1,86,813
17	...	...	...	17	47,648	8,610	51,073	...	1,07,331	2,68,580
104	5,222			5,326	8,08,416	29,507	1,26,541		9,64,464	14,15,472
...	...	...	...	...	...	...	...	...	...	...
					...					12,551
...	...	...	...	...		...	...	...	...	19,192
	71	50		121	1,56,748	7,524	17,550		1,56,748	1,94,945
...	1,609	2,364	...	3,973	...	57,420	24,830	...	25,074	6,15,716
									82,250	12,29,031
	71	50		121	...	7,524	17,550		25,074	6,34,908
...	1,609	2,364	...	3,973	1,56,748	57,420	24,830	...	2,38,998	14,36,527
	483			483						1,461
...	39,725	...	...	39,725	...	...	...	...	...	43,996
...	...	...	...	...	...	...	...	...	...	
					1,400				1,400	3,340
...	...	...	...	...	1,02,860	...	...	...	1,02,860	1,02,879
					3,05,210				3,05,210	3,08,794
	33			33						93,144
...	340	...	...	340	...	...	...	...	...	74,155
	1,843	...		1,843	...	28,720	23,122		51,842	53,725
...	10,570	2,418	...	12,988	332	1,88,324	29,476	...	2,18,132	2,34,475
	2,359	...		2,359	1,02,860	28,720	23,122		1,54,702	2,51,209
...	50,635	2,418	...	53,053	3,06,542	1,88,324	29,476	...	5,24,742	6,61,760
...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	17,95,400	...	...	...	17,95,400	18,13,748
...	...	...	...	...	...	1,80,200	...	...	1,80,200	1,80,200
...	4,740			4,740	...	8,771			8,771	17,477
2,08,050	90,442	...	...	2,98,492	4,13,600	1,75,361	...	...	5,88,961	9,16,223
...	4,740	...		4,740	...	8,771			8,771	17,477
2,08,050	90,442		...	2,98,492	22,09,000	3,55,561	...	...	25,64,561	29,10,171
17	8,483	50	540	9,090	1,58,688	57,445	91,745	30,217	3,38,095	15,01,499
2,08,154	1,51,172	4,782	1,333	3,65,441	35,31,735	6,44,883	1,80,847	1,63,218	45,20,683	70,22,192

S. BARDLEY-WILMOT,

Conservator of Forests, Oudh Circle.

Form No. 58.

FOREST DEPARTMENT, OUDH CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

OUTTURN OF MINOR FOREST PRODUCE DURING THE YEAR 1892-93.

Division.	Description of produce.		Produce removed or utilized. By Government agency. Quantity.	By Government agency. Value.	By purchasers. Quantity.	By purchasers. Value.	By free grantees. Quantity.	By free grantees. Value.	By rightholders. Quantity.	By rightholders. Value.	Total. Quantity.	Total. Value.	Remarks.
				Rs.		Rs.		Rs.		Rs.		Rs.	
Pilibhit ...	Grazing dues ...	No.	...	...	938	125	...	...	21,329	3,065	938	125	
					4,955	647					26,284	3,732	
	Grass &c., (thatching) ...	Mds.	...	...	4 161	212	...	...	7,058	345	11,219	557	
					27,779	2,370			38,064	2,167	66.175	4,581	
	Minor produce ...	Mds.	332	445	303	47	...	...	198	16	501	63	
			11	8	1,884	637			4,346	122	6,241	767	
	Total ...		343	52	...	384	...	...	...	361	...	745	
						3,654				5,374		9,088	
Kheri ...	Grazing dues ...	...	...	...	...	3,557	...	620	...	...	...	3,557	
						19,634						20,254	
	Grass (thatching) ...	...	...	...	6,363	118	13.040	445	...	...	19,403	563	
					1,807	47	99,195	4,938			1,01,002	4,985	
	Baib	...	3.960	3.258	19	3	27	3	...	...	3,960	3,258	
			10,032	8,151							10,078	8,157	
	Mahwa ...	...	18	7	...	...	...	...	...	...	—	7	
											18		
	Kutch, &c. ...	...	...	...	3,398	7,017	...	...	...	...	3,398	7,017	
					...	...					...	...	
	Lime	...	...	...	200	14	...	...	...	...	200	14	
	Minor produce ...	...	3	9	2,251	832	9,733	525	...	...	11,987	1,366	
			4	26	1,758	1,705	1,16,894	3,699			1,18,656	5,430	
	Total ...		3,963	3,267	12,012	11,524	22,773	970			38,748	15,761	
			10,054	8,184	3,884	21,403	2,16,116	9,260	...	...	2,29,954	38,847	

	Add part payment	...	...	...	4/1	...	...	...	...	...	4/1
	Deduct instalments of leases ...	...	...	...	2,018/260	...	...	...	...	...	2,018/260
	Total ...	3,963/10,054	3,267/8,184	12,012/3,784	9,510/21,144	22,773/2,16,116	970/9,260	...	...	38,748/2,29,954	13,747/38,588
Bahraich ...	Grazing dues	...	...	904/1,50,719	144/19,049	...	...	...	...	904/1,50,719	144/19,049
	Grass	...	...	60/15,260	6/1,526	997/25,068	50/1,520	...	...	1,057/40,348	56/3,046
	Mahwa	...	...	11,340	2,835	...	...	...	...	11,340	2,835
	Bankas	15,015	11,261	1,632	306	2	1	...	...	16,649	11,568
	Bamboos	...	...	3,161	296	...	...	...	...	3,161	296
	Minor produce	24/151	18/15	1,954/13,270	1,566/4,363	345/27,120	7/519	...	...	2,323/40,541	1,591/4,897
	Total ...	24/15,166	18/11,276	2,918/1,95,382	1,716/28,375	1,342/52,210	57/2,040	...	...	4,284/2,62,758	1,791/41,691
Gonda ...	Grazing dues	...	...	...	95/4,516	...	...	...	...	...	95/4,516
	Grass	...	...	1,600/1,04,395	54/2,912	40,647	331	...	...	1,600/1,45,042	54/3,243
	Mahwa	54/121	67/139	703	704	...	...	...	...	54/824	67/843
	Baib	2,835/9,222	2,190/7,045	0/226	0/23	...	...	...	...	2,835/9,448	2,190/7,068
	Lime	1,395/231	366/68	84/1,614	5/72	...	...	...	...	1,479/1,845	371/140

[Form No. 58.

FOREST DEPARTMENT, OUDH CIRCLE, NORTH WESTERN PROVINCES AND OUDH.

OUTTURN OF MINOR FOREST PRODUCE DURING THE YEAR 1892-93.

Division.	Description of produce.	Produce removed or utilized.										Remarks.
		By Government agency.		By purchasers.		By free grantees.		By rightholders.		Total.		
		Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	
			Rs.		Rs.		Rs.		Rs.		Rs.	
Gonda—(concld.)...	Kutch	...	...	0 / 373	0 / 1,400	...	...	...	...	373	1,400	
	Minor produce	...	...	173 / 1,589	45 / 335	11,080 / 2,528	692 / 142	...	...	11,253 / 4,117	737 / 477	
	Total ..	4,284 / 9,574	2,623 / 7,252	1,857 / 1,08,900	199 / 9,962	11,080 / 43,175	692 / 473	...	...	17,221 / 1,61,649	3,514 / 17,687	
Gorakhpur ...	Grazing dues	...	...	...	359 / 9,759	...	...	...	...	...	359 / 9,759	
	Grass	...	...	... / 3,37,120	399 / 11,234	...	...	...	...	... / 3,37,120	399 / 11,234	
	Bais	...	...	... / 80	... / 3	...	...	...	...	80	3 / 568	
	Kutch	...	...	...	568 / ...	...	...	...	...	...	...	
	Bamboos	...	...	291	339	...	...	...	...	291	339	
	Minor produce	...	...	... / 997	121 / 930	...	...	...	...	997	121 / 930	
	Total ...	...	...	...	1,447 / 22,265	...	...	...	...	...	1,447 / 22,265	

Totals by Divisions	Pilibhit	...	52	...	384	...	...	...	361	...	745
					3,654				5,374		9,080
	Kheri	...	3,267	...	9,510	...	970	...	...	...	13,747
			8,184		21,144		9,260				38,588
	Bahraich	...	18	...	1,716	...	57	...	...	...	1,791
			11,276		28,375		2,040				41,691
	Gonda	...	2,623	...	199	...	692	...	...	...	3,514
			7,252		9,962		473				17,687
	Gorakhpur	...	...	...	1,447	...	...	...	...	...	1,447
					22,265						22,265
	Total ...	...	5,908	...	13,256	...	1,719	...	361	...	21,244
			26,764		85,400		11,773		5,374		1,29,311
Abstract ...	Grazing dues	...	...	...	4,280	...	620	...	3,085	...	4,280
					53,605						57,310
	Grass (thatching)	...	44	...	789	...	495	...	345	...	1,629
					18,089		6,789		2,167		27,089
	Baib	...	5,448	...	...	...	...	...	...	...	5,448
			15,196		29		3				15,228
	Mahwa	...	67	...	...	...	...	...	...	...	67
			146		3,539						3,685
	Kutch	...	...	...	7,585	...	...	...	...	...	7,585
					1,400						1,400
	Lime	...	366	...	5	...	...	...	...	...	371
			68		86						154
	Bankas	...	11,261	...	...	...	...	...	...	...	11,568
					306		1				
	Bamboos	...	...	...	635	...	...	...	...	...	635
	Minor produce	...	27	...	2,611	...	1,224	...	16	...	3,878
			49		7,970		4,360		122		12,501
	Total ...	...	5,908	...	13,256	...	1,719	...	361	...	21,244
			26,764		85,400		11,773		5,374		1,29,311

MEMO.

The total of "Abstract" of different kinds of Minor Produce in column of "Purchasers" of Form No. 58 according to calculation comes to $\frac{15,270}{85,659}$, it appears that the additions and deductions noted in the Kheri Division have not been deducted from and added to the items concerned in the body of the Abstract. The total entered as $\frac{13,256}{85,400}$ is correct as under—

Three months' figures.

15,270
+ 4
−2,018
13,256

Total according to calculation.
Twelve months' figures.

85,659
+ 1
−260
85,400

NAINI TAL,
The 23th September 1893.

S. EARDLEY-WILMOT,
Conservator of Forests, Oudh Circle.

[Form No. 59.

FOREST DEPARTMENT, OUDH CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

ACCOUNT OF TIMBER AND OTHER PRODUCE CUT OR COLLECTED BY GOVERNMENT AGENCY AND BROUGHT TO SALE DEPÔTS, OR SOLD LOCALLY, DURING THE YEAR 1892-93.

Particulars.	No. or quantity.	Cubic feet.	Total of each head. No. or quantity.	Total of each head. Cubic feet.
BALANCE AT COMMENCEMENT OF THE YEAR BY DIVISIONS.				
Pilibhît Division.				
R.				
Rafters and poles	25	100		
Sál and Tun planks	68	...	93	100
Stacked fuel	..	97,386	...	97,386
Baib and Sink grass (maunds)	99			
Other minor produce	1	...	100	
Kheri Division.				
Poles	572	2,723		
Pieces of wood	395	3,451		
Planks	252	73		
Sál logs	5,722	2,16,535		
Asna „	916	28,557		
Haldu logs...	149	10,921		
Sál Sleepers 14 × 6 × 8	103	494		
Do. 12 × 8 × 1½...	9	27		
Do. 10 × 10 × 5...	62	215		
Do. 6 × 8 × 6	7,435	14,870		
Do. 6 × 8 × 4½...	2,18,760	3,28,140		
Sál sugar mill frames	29,825	11,639		
„ door frames.	1,374	1,002		
„ Scantlings	4,458	4,867		
„ Signal posts.	14	217		
Asna Sleepers 6 × 8 × 6	218	436		
„ „ 6 × 8 × 4½...	23,164	34,888		
„ Scantings	84,874	1,28,405		
„ Beams	38	712		
Miscellaneous Bhoudas	4,242	7,227		
Large Boats	51	...		
Dugouts	530	...	3,83,154	7,95,402

Particulars.	No. or quantity.	Cubic feet.	Total of each head. No. or quantity.	Total of each head. Cubic feet.
Received by purchasers from depôts.				
Sál logs, botas, half logs and pieces... ...	70	1,760		
	2,295	51,613		
	7,064	28,661		
„ ballies and poles	22,694	86,452		
Asna logs, botas, half logs and pieces ...	20	1,302		
	651	31,839		
„ ballies and poles	2	54		
	296	588		
Haldu logs and pieces	9	180		
Sál scantlings	2,458	4,113		
	17,568	15,385		
„ battens	3,503	696		
	21,414	4,366		
„ sleepers...	1,052	3,377		
	73,675	114,323		
„ signals	9	205		
„ planks	965	506		
	8,013	5,727		
Asna sleepers	2,043	3,064		
	16,908	25,337		
„ scantlings	250	397		
	18,532	23,732		
Dugouts	188	...		
Ballies	22	...		
Sál slabs	2,016	935		
	272			
„ offcuts ... Mds. ...	8,397	16,491		
„ offcuts ... No. ...	117			
	295			

Drift Sissu logs		18	252	18	252	
Fuel		...	56,260	...	56,260	
Bailb grass (maunds)		3,508	...	3,508		
Hides ... No. ...		17	...	17		
Bahrámghat Division.						
B.—Sál logs		294	12,457			
(1) „ scantlings		40	42			
„ pieces (maunds)		24	...			
„ thin planks „		51	...			
„ half logs		151	1,107			
„ slabs		231	299			
„ planks		1,094	462			
„ battens		2,335	691			
„ sleepers		707	1,715			
„ scantlings		5,507	3,548			
„ botas		112	1,220			
„ offcuts ...	No. ..	890	...			
	Mds. ...	1,079				
Sál offcuts		510	187			
„ pieces		75	151			
„ „	No. ...	1,646	...			
	Stacks ...	29				
	Mds. ...	427				
Asna logs		87	3,185			
„ sleepers (kheri)		7,836	11,784			
„ scantlings		421	580			
„ slabs		70	77			
„ battens		678	106			
„ botas		33	584			
„ offcuts.		36	115			
„ pieces ...	Stacks. ...	9	...			
	Mds. ...	64				
Pieces		33	36			
Asna sleepers		2	11			
„ planks		3	2			
„ pieces ...	Stacks ...	1	...			
	Mds, ...	10				
Large boat		1				
Babul scantlings		250	16			
Sissu scantlings		129	29			
„ planks		142	35			
„ slabs		5	1			
„ botas		8	28			
„ offcuts ...	No. ...	28	2			
	Mds. ...	7				
„ pieces ...	No. ...	5	6			
	Mds. ...	4				
Sissu half logs		4	1			
Deodar scantlings		53	22			
Deodar slabs		15	6			
Tun scantling		2	1			
„ slabs		12	2			

		32				
„ khanch ...	Mds. ...	693	43			
	No. ...	68	857			
		258				
Thin sál planks ...	...Mds. ...	188	250			
		5	7			
Asna battens ...	... ...	6,182	1,041			
„ planks... ...	... ...	82	56			
„ offcuts... ...	...Mds. ...	1,125	2,042			
Sál beams ...	... ...	4	28			
		147	1,327			
Asna „ ...	... ...	9	...			
		4	30			
Sissu scantlings ...	... ...	3	3			
		...	1			
„ planks ...	... ...	6	6			
		49	10			
„ offcuts ...	...Mds. ...	6	12			
Deodar scantlings ...	... ...	37	15			
Tun „ ...	... ...	2	1			
Sissu logs, botas and half logs	... ...	10	58			
Tun half logs and botas	... ...	2	7			
		4				
Mango wood ...	Mds. ...	100	...			
	No. ...	2	200			
Miscellaneous bandas ...	... ...	34	57			
Scrap wood	...Mds. ...	27	915			
Asna champ... ...	... ...	12	24			
Sissu ballies ...	... ...	20	39			
Haldu „ ...	... ...	13	68			
Dhau „ ...	... ...	122	192			
„ pieces ...	... ...	13	188			
Mahwa logs and pieces ...	... ...	35	481			
Miscellaneous ballies ...	... ...	1,795	2,186	496		
„ pieces ...	... ...	23	292			
Jamun ballies ...	... ...	19	57	Mds.	10,365	
		884	884		18,517	45,054
Sugar mill legs ...	... ...	234	264	No.	1,93,672	3,87,553
Drift.						
		472	1,633			
Rapti drift... ...	... ...	1,401	4,865			
		119	350			
Great Gandak drift ...	No. ...	3,491	13,730			
	Mds. ...	153	...			
Sál logs and pieces ...	... ...	61	856			
„ ballies and poles ...	... ...	67	459			
Sissu logs and pieces ...	... ...	349	3,323			
		569	5,326			

[Form No. 59.

FOREST DEPARTMENT, OUDH CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

ACCOUNT OF TIMBER AND OTHER PRODUCE CUT OR COLLECTED BY GOVERNMENT AGENCY AND BROUGHT TO SALE DEPÔTS, OR SOLD LOCALLY, DURING THE YEAR 1892-93—(*continued*).

Particulars.	No. or quantity.	Cubic feet.	Total of each head. No. or quantity.	Total of each head. Cubic feet.
BALANCE AT COMMENCEMENT OF THE YEAR BY DIVISIONS—(*continued*).				
Bahrámghat Division—(concluded).				
Tun betas	1	13	No. 23,627	38,429
„ half logs	2	9	Mds. 1,666	
Firewood (Maunds)	107	...	107	...
Drifts.				
Sál logs	35	1,400		
„ poles	93	844		
Asna „	66	851		
Sissu legs and pieces	1,138	6,795		
Khair „	124	531		
Kaim „	91	1,241		
Jaman „	58	531		
Tun „	58	242		
Ghaghari	95	594		
Kakath	139	1,652		
Squared Sissu	2	9		
Tendoo	9	1,063		
Sandan	53			
Miscellaneous timber	10	416		
Asna logs	8	132		
Drodar	9	...	1,097	16,271
Canoes				
Lucknow Depôt.				
Sál offcuts ... ... No. Maunds.	97 388	8	No. 230 Mds. 388	113
„ Battens	67	105		
„ Scantlings	66			

Particulars.	No. or quantity.	Cubic feet.	Total of each head. No. or quantity.	Total of each head. Cubic feet.
Drift—(concluded).				
Sissu ballies and poles	1,246	7,144		
	3	203		
Deodar logs	20	318		
„ Ballies	3	12		
Tun logs	11	141		
„ Ballies	5	24		
Haldu logs	8	222		
„ Ballies	8	28		
Asna logs and pieces	20	387		
„ ballies and poles	46	326		
Miscellaneous logs and ballies	57	372		
Country cart	1	...		
	2	...		
Dugouts	11			
	...	..		
Sandan ballies	9	32		
Asna slab	1	...		
Boats, kundas and planks	33	...		
Sal planks	3	8		
„ scantlings	4	8		
„ sleepers	1	2		
„ slabs	4	...		
Asna planks	5	14		
„ sleepers	16	9		
Sissu scantlings	1	1		
„ planks	3	8		
	14	140		
Sál logs and ballies	10	352		
	10	114		
Asaina logs and ballies	2	13		

Bahraich Division.					
Sál logs (Sujouli)	25	1,379			
„ poles	3,300	42,681			
Asna poles	1	51			
Sál poles (Bahraich)	2,329	2,901	5,055	47,012	
Fuel (Sujouli) ... Maunds ...	19,613	39,226			
„ (Bahraich)	15,062	30,164			
„ (Nepalganj)	21,037	42,074	55,732	111,464	
Baib grass (Sujouli)	5,053	...			
„ „ (Bahraich)	6,172	...	11,225	...	
Gonda Division.					
Sál poles	1,311	2,274			
„ offcuts	110	300			
Asna offcuts	255	172			
„ scantlings.	60	110			
„ sleepers	2,932	4,398	4,698	7,254	
Fuel ... ... Maunds ...	17,300	44,980	17,300	44,980	
Asna bark ... Maunds ...	12	...	...	...	
Sál „ „	5	...	...	...	
Bankas „	92	...	...	...	
Mohwa seed „	4	...	113	...	
Gorakhpur Division.					
Sál poles	16,964	71,915	...	...	
„ poles	1,088	1,086	...	...	
„ offcuts	259	65	...	...	
„ sleepers	275	412	...	...	
„ Sugar mill pots, &c.	234	261	...	...	
Asna large poles	29	87	...	...	
Miscellaneous	19	57	18,898	73,886	
Fire wood ... ... Maunds ...	12,650¾	50,600	12,650¾	50,600	
Drift Rapti ... Numbers ...	1,043	...	...	...	
„ „ ... Maunds ...	15¾	1,113	1,738	...	
„ Gandak	695	2,282	153	3,395	
Total balance Numbers ...	...	...	41,095	13,42,816	
Maunds ...	...	...	102,805	−25,300	
Deduct on account of conversion of stacked c. ft of fuel into solid cubic feet in Gorakhpur Division.			...	13,17,516	
II—*Received from the forest in depôts.*					
Sál and Kokat logs	66	548			
Ballies ... ... No. ...	5	138			
	81	218			
	157	547			
carts. ...	4				

Miscellaneous timber	42	419				
	11	152				
Miscellaneous logs and pieces	127	1,545				
Do. poles	155	1,240				
Sandan logs	1	22		1,011		
			No.	7,351		
				15¾		6,182
Dudhi (fuel) ... ...Mds. ...	41,325	82,650	Mds.	41,325		1,20,566
Firewood ... .. Mds. ...	24,926	122,834		24,926		1,22,834
	92,398	16,66,093		92,398		1,66,093
Minor produce.						
Baib grass ... ...Mds. ...	2,924					
Hides ... ... „ ...	24,889					
...No. ...	6					
	49					
Bark ... ...Mds. ...	40	80				
Moonj grass ... ... „ ...	291	582				
	24	...				
Mahwa ... ... „ ...	54		No.	49		
	10	...		3,187		80
Lime ... ... „ ...	115		Mds.	25,738		582
	542	...				
II.—*Sold locally.*						
Miscellaneous scantlings	1	4				
Sál and kokat logs	5	38				
Sál ballies ... No. ...	132	322				
... Carts. ...	4					
„ scantlings	1	8				
Kokat Do.	42	42				
Suplings (carts)	5	100				
	2	88				
Sál logs and pieces	137	4,599				
	246	1,389				
„ poles	1,075	8,866				
	1	13				
Sissu logs and pieces	18	337				
Asna „ „	37	1,214				
„ poles	602	1,610				
Miscellaneous logs and pieces	32	992				
„ poles	129	574				
Sál beam	1	11				
Asna ballies	6	52				
Sissu „	4	16				
Haldu logs and pieces	3	38				
Miscellaneous ballies	9	77				
Dugouts	2	...				

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ACCOUNT OF TIMBER AND OTHER PRODUCE CUT OR COLLECTED BY GOVERNMENT AGENCY AND BROUGHT TO SALE DEPÔTS OR SOLD LOCALLY DURING THE YEAR 1892-93.

Particulars.	No. or quantity.	Cubic feet	Total of each head. No. or quantity.	Total of each head. Cubic feet.
BALANCE AT COMMENCEMENT OF THE YEAR BY DIVISIONS—(*continued*).				
Depôts—(concluded).				
Sál ballies and scantlings	9	193		
	...	...		
„ logs and pieces	1,567	42,909		
„ ballies and poles	3,487	4,430		
	13,692	24,865		
„ scantlings	670	334		
Asna logs and pieces	19	225		
	902	26,326		
„ ballies	165	390		
Haldu logs and pieces	2	21		
	30	871		
„ ballies	4	18		
Sissu logs.	31	858		
„ ballies...	20	39		
Sál sleepers	1,578	2,301		
„ planks	262	25		
„ signals...	2	79		
„ slabs	395	121		
Asna planks	905	2,715		
Miscellaneous logs and pieces	28	439		
„ ballies	199	1,644		
Dhau „	169	392		
Mahwa logs and pieces	36	517		
	884	884		
Sugar mill logs	...	...	4,518	6,519
Dugouts	34	...	19,955	105,189

Particulars.	No. or quantity.	Cubic feet.	Total of each head. No. or quantity.	Total of each head. Cubic feet.
II. Sold locally—(concluded).				
Timber		50,598		
			219	1,490
Mahwa wood	3	15		
			2,218	69,513
Firewood ... . No. ...	116	1,160	116	1,160
	285	37,156	285	37,156
Minor produce.				
Bab and sirk grass ... ...Mds. ..	95	...		
Thatching grass ... (No. ...	500	...		
(Mds. ...	10	...		
Hides ... ...No ..	4	...	(No. 504 (Mds. 105	
III.—Converted in depôts.				
Sál ballies	772	1,440		
„ pieces, logs and lotas	751	31,146		
	6,765	91,889		
„ gabba ... ... (Mds. ...	514	4		
(No. ...	2			
	259	981		
Tán sál planks ... (Maunds) ...	100	133		
Asna	6	8		
Sissu	5	1		
Sál scantlings	32	126		
	1,245	2,167		
„ planks	111	193		
„ battens	220	83		
„ sleepers	13	52		
	432	796		
Asna scantlings ... ... (Mds. ...	226	356		
(No. ...	28			

Drift.					
Rapti drift	1,137	5,901			
Great Ganduk	5	7			
	3,614	14,244			
Sál logs and pieces	77	1,312			
„ ballies and poles	134	1,206			
Sissu logs and pieces	1	1,371			
	665	7,771			
„ ballies and poles	1,639	11,003			
Deodar logs	2	247			
	36	771			
„ ballies	8	28			
Túni logs	10	159			
„ ballies	5	24			
Sál scantlings	4	8			
Haldu logs	10	240			
„ ballies and poles	11	62			
Asna logs and pieces	34	728			
„ ballies	61	473			
Sadan logs	2	46			
„ ballies	14	34			
Miscellaneous logs, ballies and pieces ...	104	558			
Dugouts	47	...			
Sál planks	3	8			
„ sleepers	1	2			
„ slabs	4	...			
Asna planks	5	14			
Sissu „	3	8			
Asna sleepers	6	9			
Deodar beams	1	23			
Asna slab	1	...			
Sissu scantlings	1	1			
Miscellaneous logs and pieces	186	2,440			
Do. poles	187	1,739			
Sál logs, poles and pieces	24	588			
Sissu Do. Do.	33	351			
Asna Do. Do.	8	121			
				8	
Miscellaneous Do.	1	5	No.	8,076	
					1,625
Fuel ... ... Mds. ...	41,325	82,650	Mds.	41,325	132,530
	41,271	185,402		41,271	185,402
Firewood ... ... „ ...	23,933	2,449,609		23,933	2,449,609
Minor forest produce.					
Baib grass ... ... Mds. ...	3,604				
	31,324				
Hides ... ... { No. ...	33				
{ Mds. ...	4				

Sál offcuts ... ... { Mds. ...	1,892	8,453			
{ No. ...	1,975				
	227	3,185			
„ fuel ... ... Mds. ...	1,198	1,890			
	2,045	2,858			
	41	1,121			
Asna logs, botas and half logs	1,680	23,129			
„ offcuts ... ... { Mds. ...	196	645			
{ No. ...	99				
	42	496			
Sissu botas	5	31			
Sál beams	1	15			
	16	145			
Kaim botas	2	24			
Asna beams	1	15			
Sál slabs	3,290	16,362			
Asna „	23	131			
Sissu offcuts	3	4			
	...	...		4,115	
Haldu logs	2	21	No.	15,055	
					43,756
Sál pieces ... ...(Maunds)...	53	71	Mds.	5,932	1,45,315
III.—Lost or written off as useless.					
Sál scantlings	490	268			
„ logs and half logs	2,236	84,079			
„ ballies and poles	52	3,059			
Asna logs and botas	263	5,836			
Haldu „	2	1,500			
Sál sleepers	6,652	6,886			
„ scantlings	567	352			
sugar mill frames	3,135	1,129			
Asna sleepers	674	1,153			
„ scantlings	786	1,255			
„ planks	23	56			
Dugouts	160	...			
Miscellaneous ballies	1,000	2,000			
Haldu logs	1	...			
Sál offcuts	1,468	...			
„	1,233	...			
Stacks	13	...			
Sissu scantlings	59	20			
Asna battens	522	77			
Sissu offcuts	5	1			
Deodar scantlings	16	7			
Babool „	59	6			
Asna offcuts (maunds)	10,265	531			
Túni	12	2			
Sissu botas	2	25			
Túni „	...	8	{ No.	10,751	
			{ Mds.	10,265	1,09,760

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ACCOUNT OF TIMBER AND OTHER PRODUCE CUT OR COLLECTED BY GOVERNMENT AGENCY AND BROUGHT TO SALE DEPÔTS, OR SOLD LOCALLY, DURING THE YEAR 1892-93.—(*continued*).

Particulars.	No. or quantity.	Cubic feet.	Total of each head. No. or quantity.	Total of each head. Cubic feet.
BALANCE AT COMMENCEMENT OF THE YEAR BY DIVISIONS—(*continued*).				
Minor forest produce—(continued).				
Moonj grass ... „ ...	21			
	...			
Lime ... ... „ ...	1,395			
	231			
Mahwa ... ... „ ...	54			
	121			
			5,076	1,198
Sál barks ... ... „ ..	599	1,198	31,680	...
	...		No. 33	
III.—Received from forests and sold locally.				
Saplings	5	100		
	2	88		
Sál logs and pieces	177	5,075		
	246	1,389		
„ poles and ballies	1,084	8,908		
	1	13		
Sissu logs and pieces	23	382		
Asna do. do.	37	1,211		
„ poles	602	1,610		
Miscellaneous logs	37	1,178		
Do. poles and ballies	145	665		
Sál beams	4	27		
„ scantlings	3	10		
Asna ballies	6	52		
Sissu Do.	6	24		
Haldu logs and pieces	7	94		
Timber	...	50,508		
Mahwa wood	3	15		
Miscellaneous scantlings	1	4		

Particulars.	No. or quantity.	Cubic feet.	Total of each head. No. or quantity.	Total of each head. Cubic feet.
Drift.				
Great Gandak drift	5	50		
	30	89		
Sissu logs and pieces	273	...		
Sál „ and ballies	69	1,247		
Asna „ „	36	886		
Miscellaneous timber	389	3,039		
			5	50
Canoes	3	...	800	5,261
Firewood	...	40,580	...	40,580
Minor produce.				
Baib grass ... Mds. ...	18	...		
Other minor produce ... ... „ ...	1	...		
Asna bark extract ... ... „ ...	12	...		
Mahwa ... ... „ ...	4	...		
Sál bark extract ... ... „ ...	5	...	...	Mds. 40
V.—Used by the department.				
	357	743		
Sál ballies and poles	1,512	16,004		
	152			
Sál logs and pieces ... Mds. ...	38	170		
No. ...	115	488		
	4	1		
Sissu logs pieces and half logs	9	293		
	62	30		
Sál scantlings	1,487	1051·07		
	16	22		
„ sleepers	344	580·40		
Sugar mill frames	125	15		
Signals	1	11		
Asna scantlings	154	211		

Dugouts		6	...		249	1,490
		116	8,180		2,146	69,956
Firewood	No. ...	290	37,296		116	8,180
					290	37,296
Minor produce.						
Baib grass	Mds. ...	12	...			
Pulas of grass ...	„ ...	320				
	No. ...	16,000				
Hides	No. ...	4				
Sál bark	„ ...	1				
	Mds. ...	10	...	Mds.	312	
				No.	16,005	
IV.—Received by conversion in depôts.						
Sál ballies		378	261			
		5,300	7,956			
„ scantlings		10,659	11,184			
		6,231	1,079			
„ battens		18,009	3,339			
		2,010	1,113			
„ planks		5,174	4,588			
		2,010	5,630			
„ sleepers		2,514	5,341			
		1,260				
	Mds. ...	12,000	9,360			
„ offcuts ...		2,344				
	No. ..	239	22,413			
		6,758				
	Mds. ...	1,540	8,800			
Khanch	No. ...	1,155	2,053			
		...				
Sál slabs	Mds. ...	394	526			
		120	169			
Thin sál planks ...	„ ...	139	253			
		35	46			
	Mds. ...	128				
Sal botas, pieces and half logs ...		38	...			
	No. ...	47	995			
		5,926	54,742			
Sal beams		52	399			
„ slabs		126	1,168			
		4,944	16,111			
Asna sleepers		1	4			
		112	191			

„ beams		36	675			
„ planks		915	2,678			
Sál planks		257	98·61			
Miscellaneous		100	200			
Sál battens		2,256	574·27			
Asna sleepers		394	591			
Sál offcuts	Mds. ...	5,162	10,322			
		4,851				
„ firewood ...	„ ...					
		1,104				
	Stacks ...	16	3,884			
		...	1,472			
	No. ...	119				
		...				
Sissu scantlings		28	4			
		72	62			
„ planks		246	84			
Asna battens		9	2			
Sissu offcuts ...	Mds. ...	7	35			
	No. ...	18	23			
		46				
Asna offcuts ...	Mds. ...	65	86			
		2,042				
	No. ...	Stacks 2	3,376			
		49				
„ logs and pieces ...	Mds. ...	10	49			
		52	82			
	No. ...	5				
		...				
Kaim planks		22	8			
Sál fuel	Mds. ...	1	1			
„ slabs „		15	6			
		...	...			
Babul scantlings		200	10			
		...	...			
Tún pieces		2	9			
Sál beams		4	24			
Asna ballies		11	21			
					5,078	
Haldu scantlings		12	17	Mds.	8,406	
					844	5,049
Mahwa piece		1	33		8,177	38,997·35
Drift.						
Rapti drift		49	202			
		19	58			
Great gandak drift		14	51			
Sissu logs and pieces		4	59			
Sál logs and ballies		1	12		19	58
Miscellaneous timber		2	24		70	438

[Form No. 59.

FOREST DEPARTMENT, OUDH CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

ACCOUNT OF TIMBER AND OTHER PRODUCE CUT OR COLLECTED BY GOVERNMENT AGENCY AND BROUGHT TO SALE DEPÓTS, OR SOLD LOCALLY, DURING THE YEAR 1892-93—(*continued*).

Particulars.		No. or quantity.	Cubic feet.	Total of each head. No. or quantity.	Total of each head. Cubic feet.
BALANCE AT COMMENCEMENT OF THE YEAR BY DIVISIONS—(*continued*).					
Received by conversion in depóts—(concluded).					
Asna scantlings	Mds. ...	5	...		
		221			
	No. ...	369	487		
		5,296	4,108		
		153	31		
„ battens		6,130	1,008		
„ planks	Mds. ...	...	...		
	No. ...	9	7		
		76	51		
„ offcuts	Mds. ...	452	1,004		
		3,153	5,292		
	No. ...	72			
		...			
Asna botas, pieces and half logs ...	Mds. ...	52	...		
„ firewood	No. ...	2	9		
		1,105	12,598		
„ firewood	Mds. ...	18	24		
„ beams	...	5	45		
„ slabs	...	23	131		
Sissu scantlings	...	2	1		
		121	93		
„ planks	...	44	35		
		115	29		
„ botas	...	2	5		
		5	50		
Kaim planks	...	22	8		
„ botas	...	2	24		

Particulars.		No. or quantity.	Cubic feet.	Total of each head. No. or quantity.	Total of each head. Cubic feet.
Drift—(concluded).					
Firewood	Mds. ...	528	57,384	528	57,384
		1,267		1,267	
		125			
Baib grass	Mds. ...	197			
Tlatching grass ...	Mds. ...	286	...	125	
	No. ..	14,328		Mds. 1,422	
Lime	Mds. ...	939	...	No. 14,328	
VI.—Transferred to other sale depóts.					
Sál logs	.. ...	1,464	55,592		
Asna „	... ...	227	10,456		
Sál sleepers ...	... ...	61,801	92,726		
„ bonts	... ...	12	...		
Miscellaneous ballies ...	... ...	23	46		
Sál scantlings ...	... ...	1,337	1,503		
„ planks ...	... ...	414	338		
„ battens ...	... ...	2,402	612		
„ khanch	No. ...	240	287		
		4,678			
	Mds. ...	265	7,017		
Asna sleepers	...	1,609	2,408		
		6,091	9,082		
Sál offcuts	No. ...	210			
		63	...		
	Mds. ...	265	353		
		688	1,017		
Thin sál planks	„ ...	54	72		
Asna jhamp	„ ...	12	16	2,059	
				No. 84,434	
				530	3,048
Sál poles and ballies	„ ...	5,922	16,096	Mds. 754	1,94,973

Sissu offcuts	16	28	19,843	
	5	1	No. 60,718	
Haldu scantlings	12	17	9,136	37,752
Firewood	...	860	Mds. 17,177	1,44,986
			...	860
V.—Received by transfer from sale depôts.				
Sál sleepers	61,940	76,379·40		
„ logs	464	20,091		
	1.000	52,512·00		
Asna sleepers	1,6.9	2.408		
	10,769	16,099		
Sissu logs	4	106		
„ ballies	4,351	13,065		
Sál ballies and poles	1.573	3,049		
„ battens	4,405	1.121·27		
„ scantlings	2,425	2,065·07		
„ offcuts ... ... Mds. ...	265			
	658			
No. ...	210	353		
	63	1017·00		
„ jhamp ... ...Mds. ...	54	72		
„ planks	612	495·61		
Asna jhamp ... ...Mds. ...	18	16		
Sál khanch ... ... Mds. ...	265	257	530	
No. ...	240		Mds. 700	
Asna logs	227	10,446	2.750	33,585
	...	...	No. 87,142	165,907·35
VI.—Drift.				
Rapti drift	1	10		
Sál logs.	4	171		
„ ballies	1	4		
Sissu logs	64	820		
„ ballies	130	669		
Deodar logs	3	64		
Tún „	3	94		
Haldu logs	1	81		
„ ballies	1	4		
Asna logs	1	56		
„ ballies	2	9		
Miscellaneous logs and ballies	38	225		
Country cart	1	...	250	2,207
	4,190	3,180	4.190	3.180
Firewood ... ...Mds. ...	32,346	81,391	32,346	81,391

VII.—Drift sales.				
Drift wood	1	10		
Sissu logs and pieces	484	4,449		
Sál „ „	38	689		
Asna „ „	28	254		
Deodar logs and pieces...	7	176		
Miscellaneous timber	194	2,202		
Canoes	4	...	756	7,780
	1,590		1,590	
Firewood ... ...Mds. ...	36,258	89,215	36,258	89,215
Drift made over to claimants.				
Rapti drift	206	922		
	1	10		
Great Gandak	198	225		
Sissu logs and pieces	5	95		
Sál poles	11	179		
„ pieces	2	21		
Sissu logs	7	169		
„ poles	9	90		
			1	10
Asna logs	1	20	439	1,721
VII.—Balance at close of the the year, i.e., 30-6-93 by Divisions.				
Filibhit Division.				
Sál logs	66	503		
„ ballies	112	178	178	681
Firewood	...	32,830	...	32,830
Thatching grass ... pulás No. ...	1,172			
„ „ ...(Mds.) ...	24			
Sál bark ... ...cart ...	1	...	No. 1,173	
„ „ ... ...(Mds.) ...	10	...	Mds. 34	
Kheri Division.				
Sál logs	1,938	70,614		
„ ballies	1,553	5.763		
Asna logs	253	8.515		
„ ballies	31	113		
Haldu logs	143	10,019		
„ ballies	4	18		
Sissu logs	11	322		
Sál scantlings	5,469	5,517		
Sál sleepers 6 × 8 × 5 = 5,377 = 10,754 ...	1,47,644	2,24,154		
„ „ 6 × 8 × 4½ = 142,267 = 213,400 ...				
Sál sugar mill frames	26,265	10,495		
„ Signals	6	80		
Asna sleepers 6 × 8 × 6 = 218 = 436	9,056	13,693		
„ „ 6 × 8 × 4½ = 8,838 = 13,257 ...				

[Form No. 59.

FOREST DEPARTMENT, OUDH CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

ACCOUNT OF TIMBER AND OTHER PRODUCE CUT OR COLLECTED BY GOVERNMENT AGENCY AND BROUGHT TO SALE DEPÔTS, OR SOLD LOCALLY, DURING THE YEAR 1892-93—(*continued*).

Particulars.	No. or quantity.	Cubic feet.	Total of each head. No. or quantity.	Total of each head. Cubic feet.
BALANCE AT COMMENCEMENT OF THE YEAR BY DIVISIONS—(*concluded*).				
VII.—Received by adjustment of stock forms on stock-taking.				
Sál scantlings	759	559		
„ planks	561	275		
„ doors	2	2		
„ posts	18	29		
„ gate railings	2	2		
Sál battens	1,653	314		
Sál sleepers	8	20		
		333		
„ offcuts ... Mds. ...	1,164	6,529		
„ thin planks ... „ ...	122	163		
„ scrapwood ... „ ...	37	934		
„ trusses	16	64		
„ door frames	1	2		
„ windows	3	2		
„ chaukhats	5	36		
Sál logs, half logs and butas	59	761		
Sál beams	...	4		
„ slabs	...	1,080		
Asna scantlings	4	50		
„ planks	...	1		
„ sleepers	50	16		
„ legs and half logs	197	897		
Sissu logs	...	3		
Asna jhamp	...	8		
„ offcuts ... Mds. ...	24	722		
Sissu planks	...	1		
„ offcuts ... „ ...	2	3		

Particulars.	No. or quantity.	Cubic feet.	Total of each head. No. or quantity.	Total of each head. Cubic feet.
Kheri Division—(concluded).				
Asna beams	2	37		
Large boats	48	...		
Dugouts	186	...		
Miscellaneous ballies	1,468	4,340		
„ logs	5	138		
Asna scantlings	71,204	1,07,693	2,65,286	4,61,541
Firewood	...	4,56,002	...	4,56,002
Baib grass ... Mds. ...	758	...	758	...
Drift.				
Sál logs	2	43		
„ ballies	8	16		
Sissu logs	84	996		
„ ballies	196	1,339		
Deodar logs	19	487		
„ ballies	5	16		
Tún logs	2	112		
Haldu logs	3	99		
„ ballies	4	38		
Asna logs	2	125		
„ ballies	4	30		
Sandan logs	1	24		
„ ballies	5	2		
Deodar beams	1	23		
Miscellaneous logs	17	243		
„ ballies	68	169	421	3,762
Bahraich Division.				
Sál poles 153=993				
2,339=1,906				
3,350=6,700				
2=13	5,844	9,612	5,844	9,612
Firewood 2,615=5,230				
8,697=1,7414...				

Mango wood ...	„ ...	100						9,250=18,500 ...	Mds. ...	20,562	41,144	90,562	41,144
		4	200					Bankas 396 ...	Mds. ...	11,071	...	...	
	No. ...	2						10,675 ...					
Mango scantlings ...	... ...	43	62					Barks	„ ...	268	536	11,339	537
						4		Drift		734	9,127	734	9,127
Tun half logs ...	... ...	1	2	No.	3,418			*Drift.*					
							333	*Gonda Division.*					
Miscellaneous bands ...	... ...	34	57	Mds.	1,449		12,823	Sál logs		28	527		
Firewood... ...	... ...	...	673	...			673	„ ballies		1,570	2,436		
								„ beams		7	36		
								„ scantlings		93	107		
								„ pieces		58	405		
								Asna ballies		42	88		
								„ sleepers		5,260	7,890		
								„ scantlings		131	222		
								„ battens		248	25		
								„ pieces		262	252		
								Sissu logs		12	258		
								„ ballies		2	8		
								„ scantlings		51	33		
								„ pieces		3	20		
								Haldu „		6	81		
								Dhau ballies		34	62		
								Miscellaneous logs		4	182		
								„ ballies		61	113		
								„ pieces		1	4	7,877	12,749
								Dugouts		4	...		
								Firewood		...	77,694	...	77,694
								Mahwa flower ...	Mds. ...	111	...		
								Baib grass		9,787	...	9,898	...
								Gorakhpur Division.					
								Sál ballies		136	427		
								„ pieces		894	765	1,030	1,192
								Firewood		...	479,886	...	479,886
								Drift.					
								Rapti		405	588		
								Great Gandak		84	687	489	1,275
								Bahrámghat.					
								Sál scantlings		429	430		
								„ planks		161	84		
								„ battens		483	116		
								„ sleepers		1	1		
								Sál offcuts	Mds. ...	115	230		
								Mango scantlings		43	62		
								Sál beams		2	12		
								„ slabs		33	15		
								Sissu logs		1	18		
								Sál sleepers		6,017	9,026		
								Sissu ballies		2	18		
								Sál trusses		10	37		

[Form No. 59.

FOREST DEPARTMENT, OUDH CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

ACCOUNT OF TIMBER AND OTHER PRODUCE CUT OR COLLECTED BY GOVERNMENT AGENCY AND BROUGHT TO SALE DEPÔTS, OR SOLD LOCALLY DURING THE YEAR 1892-93—(*concluded*).

Particulars.		No. or quantity.	Cubic feet.	Total of each head. No. or quantity.	Total of each head. Cubic feet.
Total balance ...	No. ...			440,095	1,317,516
	Mds. ...			102,805	
Total Receipts ...	No. ...			27,518	27,964
				198,033	
	Mds. ...			60,803	3,213,732·35
				149,012	
GRAND TOTAL ...	No. ...			665,646	4,800,513
	Mds. ...			312,620	

Particulars.		No. or quantity.	Cubic feet.	Total of each head. No. or quantity.	Total of each head. Cubic feet.
Bakrámghát—(concluded).					
Sissu logs		2	70		
Sál posts		18	29		
Scrapwood ... Mds. ...		10	19		
Sál doors		2	2		
Gate railings		2	2		
Sal battes		194	306	Mds. 125	
Door frames		1	2	No. 7,410	10,479
Drift.					
Sál logs		1	58	1	58
Lucknow.					
Sal battens		236	45		
„ scantlings		90	70		
„ offcuts ... Mds. ...		53	106		
„ planks		17	11		
„ windows		3	2		
„ trusses		6	27	Mds. 53	
„ chaukhats		5	36	No. 357	297
Total Disposals ...	No. ...			26,936	228,762
				347,919	
	Mds. ...			36,475¼	2,972,886
				233,375	
Balance at close of the year ...	No. ...			290,791	1,598,865
	Mds. ...			42,769	
Grand Total ...	No. ...			665,646	4,800,513
	Mds. ...			312,620	

NAINI TAL,
The 28th September, 1893.

S. EARDLEY-WILMOT,
Conservator of Forests, Oudh Circle.

[Form No. 60.

FOREST DEPARTMENT, OUDH CIRCLE, N.-W. PROVINCES AND OUDH.

ABSTRACT SHOWING THE VALUE OF TIMBER AND OTHER PRODUCE AT SALE DEPÔTS FOR THE YEAR 1892-93.

Description of timber and other produce.	On hand at commencement of the year.			On hand at close of the year.			Difference in value.		Remarks.
	Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favour of the year.	Against the year	
			I.—BAHRÁMGHAT SALE DEPÔT.						
Timber.			Rs.			Rs.	Rs.	Rs.	
Sál scantlings	5,703	3,695	2,785	519	500	339	...	...	
„ planks	1,094	462	404	178	95	81	...	...	
„ battens	2,402	609	533	719	161	140	...	...	
„ sleepers	707	1,745	1,745	6,018	9,027	9,027	...	...	
„ slabs	261	299	119	...	...	...	...	...	
Asna sleepers	7,856	11,781	5,892	...	...	...	...	...	
„ scantlings	491	616	298	...	...	...	...	...	
Sissu „	129	29	11	...	...	...	...	...	
„ planks	142	35	17	...	...	...	...	...	
„ slabs	5	1	...	...	...	...	...	...	
Asna battens	678	106	53	...	...	...	...	...	
„ planks	3	2	1	...	...	...	...	...	
„ sleepers	2	11	5	...	...	...	...	...	
Deodar scantlings ...	53	22	4	...	...	...	...	...	
„ slabs	15	6	1	...	...	...	...	...	
Babool scantlings ...	250	16	4	...	...		...	...	
Tun „	2	1	...	...	...	...	...	...	
„ slabs	12	2	..	...	...	...	...	...	
Sál logs	294	12,157	9,342	...	...	...	...	...	
Asna logs	87	3,185	1,592	...	...	...	...	...	
Sál offcuts	1,497	187 Mds. 167	827	Mds. 168	336	168	...	...	
„ khauch	1,721 St. 29	151 Mds. 427	217	..	...	...	...	...	
Asna offcuts	69 St. 9	151 Mds. 64	54	...	...	...	...	...	
Sissu offcuts	33	8	4	...	...	...	...	...	
„ half logs	4	Mds. 11 1	1	...	...	...	...	...	
Sál botas	112	1,220	910	...	...	...	...	...	
Asna „	33	584	219	...	...	...	...	...	
Sissu „	8	28	11	..	...	...	...	...	
Tun „	1	13	5	...	...	...	...	...	
Sál pieces	...	Mds. 24	12	...	...	...	...	...	
Asna pieces	St. 1	Mds. 10	5	...	...	...	...	...	
Thin sál planks	..	Mds. 51	51	...	...	...	...	...	
Sál half logs	151	1,107	830	...	...	...	...	...	
Tun „	2	9	3	...	...	...	...	...	
Large boat	1	...	100	...	...	...	...	...	
Sál beams	...	...	...	2	12	9	...	...	
Mango scantlings ...	...	...	...	43	62	31	...	...	
Sál slabs	...	...	...	33	15	11	...	...	
Sissu logs	...	...	...	3	88	44	...	...	
Sissu ballies	...	...	...	2	18	7	...	...	
Sál trusses	...	...	...	16	64	55	...	...	
Sál posts	...	...	...	18	29	25	...	...	
Scrap wood	...	...	...	Mds. 10	19	4	...	...	
Sál doors	...	...	...	2	2	2	...	...	
Gate railings	...	...	...	2	2	2	...	...	
Sál ballies	...	...	...	194	306	115	..	...	
Door frames	...	...	...	1	2	2	...	...	
Sál windows	...	...	...	3	2	2	...	...	
Sál chaukhats	...	...	...	5	36	31	...	...	
TOTAL TIMBER ... No. ...	23,857	38,512	26,061	7,758	10,776	10,098	...	15,963	
TOTAL TIMBER ... Mds. ...		2,031	...	178	...	...	...	...	
Drift collections ...	1,997	16,274	4,068	1	58	29	...	4,039	
Firewood	...	107	24	...	...	...	...	24	
GRAND TOTAL ... No. ...	25,854	54,923	30,153	7,759	10,834	10,127	...	20,026	
GRAND TOTAL ... Mds. ...		2,054		178					

[Form No. 60.

FOREST DEPARTMENT, OUDH CIRCLE, N.-W. PROVINCES AND OUDH.

ABSTRACT SHOWING THE VALUE OF TIMBER AND OTHER PRODUCE AT SALE DEPÔTS FOR THE YEAR 1892-93.

Description of timber and other produce.	On hand at commencement of the year.			On hand at close of the year.			Difference in value.	
	Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favour of the year.	Against the year.
II.—OTHER FOREST AND SALE DEPÔTS.								
Timber.—(contd.).			Rs.			Rs.	Rs.	Rs.
Logs and pieces	23,799	2,90,915	1,20,395	3,274	73,624	35,903	...	84,492
Asna logs and pieces ...	916	28,557	3,570	253	8,545	1,068	...	2,502
Haldu logs	140	19,921	2,730	143	10,019	2,504	...	226
Sál sleepers and scantlings ...	2,34,108	3,53,750	1,52,646	1,58,907	2,37,984	2,35,264	...	1,17,382
Asna sleepers	1,08,294	1,64,411	82,220	80,260	1,21,386	60,692	...	21,528
Miscellaneous	4,243	7,278	454	...	...	...	...	454
Large boats	51	...	21,395	48	...	20,136	...	1,259
Dugouts	530	...	11,450	186	...	4,018	...	7,432
Offents	654	537	126	...	...	...	...	126
Asna and Jamun ballas ...	19	57	10	...	...	...	...	10
Rafters	25	109	14	...	...	...	...	14
Sál and tún planks ...	1,287	6,250	1,177	...	...	...	...	1,177
Manufactured articles ...	31,433	12,905	12,715	26,271	10,575	10,575	...	2,140
Poles and saplings ...	6,969	47,913	4,665	7,551	12,306	1,438	...	3,227
Sál ballies	...	...	...	1,801	6,368	473	473	...
Asni ballies	...	...	...	31	113	4	4	...
Haldu ballies	...	...	...	4	18	1	1	...
Sissu logs	...	...	...	11	322	80	80	...
Asna beams	...	...	...	2	37	18	18	...
Miscellaneous ballies ...	...	...	...	1,468	4,340	158	158	...
Miscellaneous logs ...	...	...	...	5	138	17	17	...
TOTAL, TIMBER ...	4,12,468	9,23,663	6,13,567	2,80,215	4,85,775	3,72,349	...	2,41,218
Drift collections .. No. ...	1,756	3,647	1,183	1,644	14,164	2,517	1,334	...
Drift collections .. Mds. ...	15	...	...	...	...	...	...	...
Firewood and charcoal ... No. ...	...	3,60,690	16,665	...	10,87,556	55,978	39,313	...
Firewood and charcoal ... Mds. ...	...	...	...	20,562	...	...	...	...
Minor produce ... No. ...	17	...	8,883	1,173	536	13,447	4,564	...
Minor produce ... Mds. ...	...	...	...	22,029	...	...	...	...
GRAND TOTAL ... No. ...	4,14,241	12,88,000	6,40,298	2,83,032	15,88,031	4,44,291	...	1,96,007
GRAND TOTAL ... Mds. ...	15	...	...	42,591	...	...	...	...
ABSTRACT.								
Timber ... No. ...	1,10,078	9,82,126	6,44,879	2,87,073	4,96,551	3,82,447	...	2,59,886
Timber ... Mds. ...	15	2,054	...	178	...	...		
Drift collections ...	...	...	...	1,645	14,222	2,516		
Firewood and charcoal ... No. ...	...	3,60,797	16,689	...	10,87,556	55,978	39,289	...
Firewood and charcoal ... Mds. ...	...	...	...	20,562	...	...	...	...
Minor produce ... No. ...	17	...	8,883	1,173	536	13,447	4,564	...
Minor produce ... Mds. ...	...	...	...	22,029	...	...	...	...
GRAND TOTAL ... No. ...	4,40,095	13,42,923	6,70,451	2,90,791	15,98,865	4,54,418	...	2,16,033
GRAND TOTAL ... Mds. ...	15	2,054		42,769	...	...	...	...

[Form No. 60A.

FOREST DEPARTMENT, OUDH CIRCLE, N.-W. PROVINCES AND OUDH.

ABSTRACT SHOWING THE VALUE OF TIMBER AND OTHER PRODUCE AT SALE DEPÔTS FOR THE YEAR 1892-93.

Description of timber and other produce.	On hand at commencement of the year.			On hand at the close of the year.			Difference in value.		Remarks.
	Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favor of the year.	Against the year.	
			Rs.			Rs.	Rs.	Rs	
Direction Division—									
Dead stock	100	...	903	115	...	1,059	...	...	
Pilibhit Division—									
Live stock	1	...	1,425	1	...	1,219	...	206	
Dead stock	1,428	...	1,176	1,482	...	1,439	263	...	
Buildings	27	...	7,600	31	...	7,850	250	...	
Total ...	1,456	...	10,201	1,514	...	10,508	307	...	
Kheri Division—									
Live stock	3	...	5,108	1	...	1,500	...	3,608	
Dead stock	44,038	...	34,676	43,558	...	58,222	23,546	...	
Buildings	50	...	44,107	54	...	47,289	3,182	..	
Total ...	44,091	...	83,891	43,613	...	1,07,011	23,120	...	
Bahramghat Division—									
Live stock	10	...	103	...	...	...	...	103	
Dead stock	840	...	42,855	957	...	45,836	2,981	...	
Buildings	16	...	9,310	16	...	9,500	190	...	
Total ...	866	...	52,268	973	...	55,336	3,068	...	
Bahraich Division—									
Live stock	1	..	2,470	...	...	...	...	2,470	
Dead stock	2,169	...	3,959	1,986	...	4,701	742	...	One rest-house condemned.
Buildings	34	...	44,560	33	...	46,428	1,868	...	
Total ...	2,204	...	50,989	2,019	...	51,129	140	...	
Gonda Division—									
Live stock	..	...	...	5	...	2,050	2,050	..	
Dead stock	572	...	2,030	2,82,836	...	4,055	2,025	...	
Buildings	28	...	18,870	32	...	19,613	743	...	
Total ...	600	...	20,900	2,82,873	...	25,718	4,818	...	
Gorakhpur Division—									
Live stock	2	...	2,340	2	...	2,340	...	...	
Dead stock	1,494	...	4,368	1,525	...	5,594	1,226	...	
Buildings	33	...	15,877	33	...	15,877	...	...	
Total ...	1,529	...	22,585	1,560	...	23,811	1,226	...	
			ABSTRACT OF THE CIRCLE.						In this form all buildings, of whatever class, have been included.
Live stock	17	...	11,146	9	...	7,109	...	4,337	
Dead stock	50,641	...	89,967	3,32,459	...	1,20,906	30,939	...	
Buildings	188	...	1,35,493	199	...	1,41,549	6,056	...	
Total ..	50,846	...	2,36,906	3,32,667	...	2,69,564	32,658	...	

NAINI TAL,
The 20th September 1893.

S. EARDLEY-WILMOT,
Conservator of Forests, Oudh Circle.

Form No. 61.

FOREST DEPARTMENT, OUDH CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

SUMMARY OF REVENUE OF THE DIFFERENT DIVISIONS DURING FOREST YEAR 1892-93.

Budget Heads.	Direction Division.	Kheri Division.	Bahrámghat Division.	Bahraich Division.	Gonda Division.	Gorakhpur Division.	Pilibhít Division.	Total.
REVENUE.								
I.—Timber and other produce removed from the Forest by Government agency—								
a. Timber ...	...	1,05,972	1,69,727	14,855	950	10,562	37	2,92,103
		1,45,191	1,99,282	7,579	3,897	11,395	37	3,67,291
b. Firewood and charcoal ...	...	16,040	3,462	6,047	18,772	55,105	4,188	1,03,614
		16,416	3,546	7,373	22,461	56,929	4,538	1,11,263
c. Bamboos ...	...	...	...	...	...	...	...	...
d. Sandal wood ...	...	...	...	...	...	...	...	...
	...	5,490	...	8,052	1,208	...	52	14,802
e. Grass and other minor produce ...	...	8,758		9,153	2,315		52	20,278
		1,27,502	1,73,189	18,954	20,930	65,667	4,277	4,10,519
Total ...	...	1,70,275	2,02,828	24,105	28,673	68,324	4,627	4,98,832
II.—Timber and other produce removed from the Forest by consumers or purchasers.								
a. Timber ...	...	90,800	...	90,703	16,148	10,380	393	2,08,424
		94,292		1,33,692	17,891	10,768	689	2,57,332
b. Firewood and charcoal ...	...	664	...	2,151	2,405	6,690	466	12,376
		854		2,261	2,560	6,965	606	13,246
c. Bamboos ...	...	...	...	296	...	339	...	635
				296		339		635
d. Grazing and fodder grass ...	...	19,634	...	22,996	5,759	9,759	648	58,796
		23,191		23,229	5,855	10,118	773	63,166
e. Other minor produce ...	...	1,509	...	9,660	5,224	11,982	3,079	31,454
		7,462		10,135	6,267	13,070	3,338	40,272
Total ...	...	1,12,607		1,25,806	29,536	39,150	4,586	3,11,685
		1,25,799	...	1,69,613	32,573	41,260	5,496	3,74,651
III.—Drift and waif wood and confiscated forest produce ...	...	1,781	790	2,492	403	4,261	11	9,738
		1,781	2,029	2,501	408	6,456	11	13,186
IV.—Revenue from forests not managed by Government—								
a. Duty on foreign timber and other forest produce.								
b. Revenue from shared and private forests.								
V.—Miscellaneous—								
a. Fines and forfeitures ...	...	9	...	695	193	...	2	899
		9		1,302	231		2	1,544
b. Refunds ...	...	408	67	310	...	14	...	799
	6	419	67	317	26	14	5	854
c. Other sources ...	...	2,610	829	7,649	832	4,355	311	16,586
		3,013	971	8,228	920	6,106	311	20,449
Total ...	...	3,027	896	8,654	1,025	4,369	313	18,284
	6	4,341	1,038	9,847	1,177	6,120	318	22,847
Grand Total, Revenue ...	...	2,44,916	1,74,875	1,55,906	51,894	1,13,448	9,187	7,50,226
	6	3,02,196	2,05,895	2,06,066	62,831	1,22,160	10,362	9,09,516

[Form No. 61.

FOREST DEPARTMENT, OUDH CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

SUMMARY OF EXPENDITURE OF THE DIFFERENT DIVISIONS DURING FOREST YEAR 1892-93.

Budget Heads.	Direction Division.	Kheri Division.	Bahrámghát Division.	Bahraich Division.	Gonda Division.	Gorakhpur Division.	Pilibhít Division.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
A.—CONSERVANCY AND WORKS.								
I.—Timber and other produce removed from the Forests by Government Agency—								
a. Timber	...	30,387	10,341	485	347	3,128	19	44,687
		40,795	13,221	713	626	4,081	30	59,466
b. Fire wood and charcoal	...	15,968	1,903	3,717	9,110	51,289	1,885	83,872
		16,906	2,767	4,688	12,353	56,172	2,111	94,997
c. Bamboos								
d. Sandal-wood		3,982	...	7,346	5,992	...	...	17,320
e. Grass and other minor produce	...	4,133		9,183	7,005			20,321
		50,337	12,244	11,548	15,429	51,417	1,904	1,45,879
Total AI ...	...	61,834	15,988	14,584	19,984	69,253	2,141	1,74,781
II.—Timber and other Produce removed from the Forests by Consumers or Purchasers	...	4,131	...	1,144	1,803	847	1,013	8,941
		4,634		2,683	2,235	1,130	1,135	11,817
Total AII ...	...	4,131	...	1,144	1,803	847	1,013	8,941
		4,634		2,683	2,235	1,130	1,135	11,817
III.—Drift and waif wood and confiscated Forest Produce	...	698	266	1,121	295	2,754	...	5,134
		706	755	1,121	295	4,249		7,126
Total AIII ...	...	698	266	1,121	295	2,754	...	5,134
		706	755	1,121	295	4,249		7,126
IV.—Revenue from forests not managed by Government—								
a. Duty on foreign timber and other Forest Produce	...	...	...	...	...	...	...	...
b. Revenue from shamed and private forests	...	...	...	...	...	...	...	...
V.—Rent of leased forests and payments to Share-holders in forests managed by Government	...	...	...	...	...	...	...	...
VI.—Live Stock, Stores, Tools and Plant—								
a. Purchase of cattle	...	...	...	...	...	...	...	...
	231	1,075	613	721	443	669	437	4,209
b. Feed and keep of cattle	231	1,322	808	840	636	822	549	5,208
	18	1,436	152	1,267	443	1,236	278	4,830
c. Purchase of stores, tools and plant	18	1,505	963	1,399	467	1,661	378	6,391
	249	2,511	785	1,988	886	1,905	715	9,039
Total AVI ...	249	2,827	1,771	2,239	1,103	2,483	927	11,599

[Form No. 61.

FOREST DEPARTMENT, OUDH CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

SUMMARY OF EXPENDITURE OF THE DIFFERENT DIVISIONS DURING FOREST YEAR 1892-93.

Budget Heads.	Direction Division.	Kheri Division.	Bahrámghat Division.	Bahraich Division.	Gonda Division.	Gorakhpur Division.	Pilibhít Division.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
VII.—Communications and Buildings—								
a. Roads and bridges	...	7,063	181	2,755	834	1,713	554	13,100
		8,658	181	3,004	882	1,713	554	14,942
b. Buildings	...	3,888	284	830	2,484	7,023	1,202	15,711
		4,373	287	886	2,078	7,173	1,546	16,943
c. Other works	...	1,084	...	113	557	522	80	2,336
		1,104		118	658	522	82	2,484
Total AVII ...	...	12,035	465	3,698	3,855	9,258	1,836	31,147
		14,095	468	4,008	4,218	9,408	2,182	34,369
VIII.—Demarcation, improvement and extension of Forests—								
a. Demarcation	...	1,878	...	5,372	1,292	1,605	726	10,870
		1,878		5,372	1,294	1,645	726	10,915
b. Compensation for land and rights	...	...	...	...	...	3,265	...	3,265
						3,265		3,265
c. Surveys	...	1,661	...	...	12	27	3,380	5,080
		3,562			12	27	3,380	6,981
d. Working-plans	...	...	...	170	40	9	295	514
				170	40	9	295	514
e. Sowing and planting	...	89	...	...	29	74	...	192
		118			30	157		305
f. Protection from fire	...	10,384	...	4,315	1,214	5,459	1,537	22,909
		14,211		7,344	1,654	5,908	1,849	30,966
g. Other works	...	1,897	...	2,722	552	1,100	680	6,951
		1,897		2,985	629	1,349	724	7,653
Total AVIII ...	...	15,909	...	12,579	3,139	11,539	6,618	49,784
		21,666		15,871	3,728	12,360	6,974	60,599
IX.—Miscellaneous—								
a. Refunds	...	530	4,352	22	...	72	...	4,976
		530	4,352	22		72		4,976
b. Law charges	...	...	168	...	...	47	1	216
		98	168			108	30	404
c. Other charges	...	268	470	2,158	199	200	115	3,410
		278	507	3,086	223	212	118	4,424
Total AIX ...	...	798	4,990	2,180	199	319	116	8,602
		906	5,027	3,108	223	392	148	9,804
Total A.—Conservancy and Works ...	249	86,422	18,750	34,258	25,606	81,039	12,202	2,58,526
	249	1,06,658	24,009	43,614	31,786	90,275	13,507	3,10,098

B.—ESTABLISHMENTS.

I.—Salaries—							
a. Conservators ...	16,200 / 21,428	...	...	...	...	...	...	16,200 / 21,428
b. Superior officers ...	...	13,760 / 18,637	2,000 / 2,700	11,350 / 13,000	4,200 / 5,250	7,190 / 8,440	4,263 / 5,063	42,763 / 53,090
c. Subordinate forest and depôt establishments ...	...	7,154 / 8,528	84 / 105	5,838 / 6,793	2,969 / 3,641	4,163 / 5,033	1,276 / 1,588	21,484 / 25,688
d. Office establishments ...	2,711 / 3,266	4,081 / 5,049	1,463 / 1,778	2,299 / 2,811	971 / 1,181	2,277	1,110 / 1,385	14,912 / 18,082
e. Deputation and special allowances ...	...	369 / 449	...	...	...	...	8 / 8	377 / 457
Total B.—I. ...	18,911 / 24,691	25,364 / 32,623	3,547 / 4,583	19,487 / 22,504	8,140 / 10,072	13,630 / 16,125	6,057 / 8,044	95,736 / 1,18,745
II.—Travelling Allowances—								
a. Conservators ...	1,330 / 1,841	...	...	...	...	...	...	1,330 / 1,841
b. Superior officers ...	...	2,531 / 3,903	150 / 279	1,876 / 2,043	1,027 / 1,357	971 / 1,487	949 / 1,204	7,504 / 10,363
c. Subordinate forest and depôt establishments ...	...	1,129 / 1,421	7 / 12	775 / 969	577 / 689	538 / 591	99 / 99	3,126 / 3,772
d. Office establishments ...	185 / 305	307 / 541	145 / 151	443 / 555	153 / 179	87 / 96	339 / 421	1,658 / 2,248
Total B—II. ...	1,515 / 2,146	3,967 / 5,925	302 / 442	3,094 / 3,567	1,757 / 2,246	1,596 / 2,174	1,387 / 1,724	13,618 / 18,224
III.—Contingencies—								
a. Stationery ...	4 / 6	163 / 174	8 / 19	62 / 62	52 / 58	35 / 44	21 / 22	345 / 385
b. Carriage of tents and records ...	367 / 527	298 / 345	...	216 / 273	241 / 293	261 / 262	120 / 133	1,503 / 1,893
c. Rents, rates and taxes ...	13 / 224	161 / 161	...	1 / 1	300 / 300	...	100 / 100	580 / 786
d. Pay of police guards ...	...	131 / 229	163 / 211	120 / 150	122 / 152	43 / 51	...	579 / 793
e. Official postage ...	656 / 790	321 / 374	113 / 148	162 / 178	109 / 141	146 / 199	85 / 87	1,592 / 1,917
f. Sundries ...	731 / 1,005	903 / 1,244	238 / 296	598 / 656	285 / 457	341 / 560	70 / 77	3,166 / 4,285
Total B.—III. ...	1,776 / 2,552	1,977 / 2,527	522 / 664	1,159 / 1,320	1,109 / 1,401	826 / 1,116	396 / 419	7,765 / 9,999
Total B.—Establishments ...	22,202 / 29,392	31,368 / 41,075	4,371 / 5,689	23,740 / 27,491	11,006 / 13,719	16,052 / 19,415	8,440 / 10,187	1,17,119 / 1,46,968
Grand Total of Expenditure ...	22,451 / 29,641	1,17,730 / 1,17,733	23,121 / 29,528	57,998 / 71,105	39,612 / 45,595	97,091 / 1,19,690	20,642 / 23,694	3,75,645 / 4,57,066
Surplus or deficit ...	− 29,635	+ 1,54,463	+ 1,76,197	1,34,961	+ 17,326	+ 12,470	−13,332	+4,52,450

CALCUTTA,
The 11th September 1893.

J. C. BOSE,
Assistant Controller-General (Forests).

[Form No. 62.

FOREST DEPARTMENT, OUDH CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

ACCOUNT CURRENT FOR THE FOREST YEAR 1892-93.

Dr.

	Rs. a. p.	Rs. a. p.
To Cash Balance ...	...	397 7 3
VIII.—Assessed Taxes—		
Income Tax—Deductions from salaries ...	...	2,100 11 11
„ *Revenue as per Annual Summary, Form No.* 61 ...	...	9,09,516 7 11
„ *Service Funds—*		
Civil Fund—Ordinary, Bengal ...	...	
„ Additional, Bengal ...	...	
Military Fund—Bengal ...	...	
„ „ Madras ...	...	
„ Orphan Fund—Bengal ...	...	
Uncovenanted Service Family Pension Fund—Bengal ...	2,005 10 0	
General Family Pension Fund ...	...	
Hindu Family Annuity Fund ...	...	
		2,005 10 0
„ *Deposits* ...	...	270 0 10
„ *Forest Cash Remittances—Local—*		
Forest cheques drawn ...	4,18,322 6 4	
Inter-Divisional Transfers ...	11,049 15 6	4,29,372 5 10
„ *Advances recoverable* ...	...	3,67,723 4 7
Suspense ...	...	9 12 5
„ *Account Current (other Governments)—*		
Remittances from Government of India ...	5,685 7 5	
Bengal ...	4,416 0 0	
Burmah ...	0 6 8	
		10,101 14 1
„ *Inter-Departmental Transfers—*		
Public Works Department, State Railways ...		
Bengal-North-Western Railway ...	14,938 3 0	
Oudh and Rohilkhand...	225 0 0	
Rájputána and Malwa ...	21 0 0	
Ordinary Branches ...	510 0 8	
Military Department ...	...	
Civil Department—		
Jail ...	...	
Mathematical Instrument and Survey Department ...	1,522 11 9	
Miscellaneous ...	574 7 6	17,791 6 11
Total ...	...	17,39,229 1 9

Cr.

	Rs. a. p.	Rs. a. p.
By Expenditure as per Annual Summary, Form No. 61 ...	...	4,57,066 6 7
„ *Deposits* ...	...	817 8 0
„ *Forest Cash Remittances—Local—*		
Remittances to Treasuries ...	6,44,773 10 0	
Inter-Divisional Transfers ...	10,041 12 5	6,54,815 6 5
„ *Advances recoverable* ...	...	3,50,050 2 8
„ *Suspense* ...	...	9 12 5
„ *Account Current (other Governments)—*		
Remittances to the Government of India ...	30,832 0 6	
Bengal ...	7,094 0 9	
Burmah ...	150 0 0	38,076 1 3
„ *Inter-Departmental Transfers—*		
Public Works Department, State Railways ...		
Rájputána and Malwa Railway ...	63,977 4 0	
Bengal and North-Western „ ...	1,02,645 5 1	
Rohilkhand and Kumaun „ ...	34,878 8 7	
Oudh and Rohilkhand... „ ...	36 12 7	
Ordinary Branches ... „ ...	23,712 15 2	
Military Department, Bengal ...	240 0 0	
Civil Department—		
Jails ...	12,852 15 8	
Miscellaneous ...	109 15 4	2,38,453 12 5
Cash Balance ...	...	...
Total ...	...	17,39,279 1 9

CALCUTTA,
The 14th September 1893.

J. C. BOSE,
Assistant Comptroller-General (Forests).

[Form No. 63.

FOREST DEPARTMENT, OUDH CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

REVENUE RECEIVED AND OUTSTANDINGS ON ACCOUNT OF REVENUE DURING 1892-93.

Division.	Particulars.	Outstandings at commencement of year.	Value of sales and other revenue during year.	Total.	Amount realised during year.	Balance due to the Department at end of year.	Remarks.
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p	Rs. a. p.	
Direction	Timber, grazing and other forest produce &c. &c. &c. ...	...	6	6	6	...	
Pilibhít	... ...	248 ...	10,329 6 5	10,577 6 5	1,175 9,186 15 2	215 7 3	
Kheri	... ...	985 13 0	3,19,345 5 5	3,20,331 2 5	57,279 8 7 2,44,916 0 0	18,135 9 10	
Bahrámghat	... ...	25,272 13 1	1,80,689 15 4	2,05,962 12 5	31,020 1,74,875 + 67 *(a)* 12 5	...	*(a)* Written off the accounts as per G. O. No. $\frac{185\ F}{557\text{-}A}$ of 27th February 1893.
Bahraich	... ...	3,461 10 3	2,16,209 1 6	2,19,670 11 9	50,160 1,55,906 + 2,123 *(b)* 1 3	11,481 10 6	*(b)* Written off the accounts as per G. O. No. $\frac{334\ F}{590A\text{-}2}$ of 25th April 1893.
Gonda	... ...	3,827 9 3	61,021 14 6	64,852 7 9	10,937 51,894	*(d)* 2,021 7 9	*(c)* Written off the accounts as per G. O. No. $\frac{216F.}{564A}$ of 14th March 1893.
Gorakhpur	... ...	2,728 10 2	1,32,386 7 1	1,35,715 1 3	8,712 1,13,448 + 2,275 *(e)* 4 10	*(e)* 10,679 12 5	*(d)* Rs. 1,520-7-9 since sanctioned to be written off the accounts as per G. O. No. $\frac{711F}{632A}$ of 17th August 8893. *(e)* Rs. 5,262-8-5 since sanctioned to be written off the accounts as per G. O. No. $\frac{791F.}{564A}$ of 19th September 1893.
	Total ...	... 36,524 7 9	6 9,19,985 2 3	6 9,56,509 10 0	1,59,289 8 7 7,50,225 15 2 + 4,466 2 6	... 42,533 15 9 ...	

NAINI TAL,
The 26th September 1893.

S. EARDLEY-WILMOT,
Conservator of Forests, Oudh Circle.

Form No. 64.

FOREST DEPARTMENT, OUDH CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

OUTSTANDINGS AND LIABILITIES ON ACCOUNT OF CONTRACTORS AND DISBURSERS FOR THE FOREST YEAR 1892-93.

Division.	Department Debtor.			Department Creditor.			Balance Due.		Remarks.
	At commencement of year.	Recoveries in cash and value of supplies and work done during the year.	At close of year.	At commencement of year.	Payments made during year.	At close of year.	To Department (Outstandings.)	By Department (Liabilities.)	
	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Direction ...	...	2,271 15 7	2,271 15 7	352 7 5	1,926 2 0	2,278 9 5	6 9 10	...	
Kheri ...	14 1 4	1,27,408 1 4	1,27,422 2 8	43,086 14 1	1,02,571 5 7	1,45,658 3 8	18,463 13 1	227 12 1	
Bahráimghat ...	...	5,982 11 11	5,982 11 11	837 2 3	5,579 0 6	6,416 2 9	433 6 10	...	
Bahraich ...	...	72,078 8 2	72,078 8 2	3,957 12 10	76,205 9 11	80,163 6 9	8,086 0 7	1 2 0	
Gonda ...	...	47,943 3 6	47,943 3 6	5,433 0 8	45,600 12 4	51,033 13 0	3,090 9 6	...	
Gorakhpur ...	3 8 1	92,758 13 2	92,762 5 3	9,673 13 1	1,00,451 11 3	1,10,125 8 4	17,363 3 1	...	
Pilibhít ...	...	19,279 14 11	19,279 14 11	2,540 13 7	17,715 9 1	20,256 6 8	976 7 9	...	
Total ...	17 9 5	3,67,723 4 7	3,67,740 14 0	65,881 15 11	3,50,050 2 8	4,15,932 2 7	48,420 2 8	228 14 1	

CALCUTTA,
The 14th September 1893.

J. C. BOSE,
Assistant Comptroller-General (Forests).

[Form No. 65.

FOREST DEPARTMENT, OUDH CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

FINANCIAL RESULTS OF THE YEAR 1892-93.

Division.	Timber and other produce removed from the forests by Government agency.		Other revenue.		Formation, protection and improvement of forests.	Total.		Remarks.
	Receipts.	Charges.	Receipts.	Charges.	Charges.	Receipts.	Charges.	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Direction Division, charges amounting to Rs. 7,190 / 22,451 distributed as follows :—
Direction	...	...	6 / ...	...	...	6 / ...	...	
Pilibhít	350 / 4,277	1,288 / 6,580	825 / 4,910	1,173 / 5,692	1,124 / 10,033	1,175 / 9,187	3,585 / 22,305	Pilibhít ... 532 / 1,663
Kheri with Bahrámghat.	72,412 / 3,00,691	21,762 / 86,896	15,880 / 1,19,100	7,522 / 29,415	10,492 / 34,518	88,300 / 4,19,791	39,776 / 1,50,829	Kheri ... 1,598 / 4,989
Bahraich	5,151 / 18,954	5,537 / 24,911	45,009 / 1,36,952	4,041 / 15,662	5,127 / 22,384	50,160 / 1,55,906	14,705 / 62,987	Bahrámghat ... 1,598 / 4,989
Gonda	7,743 / 20,930	6,073 / 22,137	3,194 / 30,964	1,951 / 8,809	1,668 / 8,161	10,937 / 51,894	9,692 / 39,107	Bahraich ... 1,598 / 4,989
Gorakhpur	2,657 / 65,667	7,763 / 65,510	6,055 / 47,781	3,706 / 14,696	2,194 / 20,211	8,712 / 1,13,448	13,663 / 1,00,417	Gonda ... 799 / 2,495
								Gorakhpur ... 1,065 / 3,326
Total ...	88,313 / 4,10,519	42,423 / 2,06,064	70,977 / 3,39,707	18,393 / 74,274	20,605 / 95,307	1,59,290 / 7,50,226	81,421 / 3,75,645	Total ... 7,190 / 22,451

The details have been made as under :—

I.— Timber and other produce removed by Government agency.

$$A\left(1+\frac{VI}{3}+\frac{VII}{3}+\frac{IX}{3}\right)+\frac{3B}{8}+\frac{\text{Direction 3 quota of charges.}}{8}$$

II.—Other revenue.

$$A\left(II+III+\frac{IV}{3}+\frac{VII}{3}+\frac{IX}{3}\right)+\frac{3B}{8}+\frac{\text{Direction 3 quota of charges.}}{8}$$

III.—Formation, improvement and protection of forests.

$$A\left(\frac{VI}{3}+\frac{VII}{3}+\frac{VIII}{1}+\frac{IX}{3}\right)+\frac{B}{4}+\frac{\text{Direction quota of charges.}}{4}$$

NAINI TAL,
The 26th September 1893.

S. EARDLEY-WILMOT,
Conservator of Forests, Oudh Circle.

No. 82.

FROM

J. S. GAMBLE, ESQ., M.A.,

CONSERVATOR OF FORESTS, SCHOOL CIRCLE,

N.-W. PROVINCES AND OUDH,

To

THE CHIEF SECRETARY TO GOVERNMENT,

N.-W. PROVINCES AND OUDH,

REVENUE (FORESTS) DEPARTMENT.

Dated Dehra Dún, the 18th September 1893.

SIR,

I HAVE the honor to submit herewith the Forest Administration Report of the School Circle, for the Forest year ending 30th June 1893.

I have the honor to be,

SIR,

Your most obedient servant,

J. S. GAMBLE,

Conservator of Forests, School Circle,

N.-W. Provinces and Oudh.

SCHOOL CIRCLE REPORT, 1892-93.

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ERRATA.

Forest Administration Report for the School Circle for 1892-93.

Page 8, para. 12—statement at end :—

			Against Jaunsar ...	*for* Rs.	"1,845"	*read* Rs.	"1,885."
			Total	*for* „	"3,385"	*read* „	"3,425."
			Note below the statement	*for* „	"1,188"	*read* „	"1,187."
„ 6	„ 35	line 3		*for* „	"11,591"	*read* „	"11,584."
„ 9	„ 49	„ 6		*for* „	"2,968"	*read* „	"2,932."
	„	„ 7		*for* „	"300"	*read* „	"298."
	„	„ 9		*for* „	"18,727"	*read* „	"18,689."

At the end of paragraph *add* "One acre in the Noraun forest, and 125 acres in the Kotigad forest were excluded."

Page 13, para. 71,		line 3		*for* Rs.	"1,029"	*read* Rs.	"1,028."
„ „	„ 74	„ 1		*for*	"Kanjaiba"	*read*	"Kanjatra."
„ 17	„ 97	„ 2		*for*	"6"	*read* „	"7"
„ „	„ „	„ 3		*for*	"7"	*read* „	"6"
„ „	„ „	„ 4, 9, 14, 15 omit the word "superficial."					
„ „	„ „	„ 8		*for*	"14"	*read*	"15"
„ 18	„ 104	„ 4 omit "Rs." before 402, 467					
„ 21	„ 126	„ 8		*for*	"Norun"	*read*	"Noraun"

SECRETARIAT LIBRARY

ANNUAL PROGRESS REPORT OF ADMINISTRATION OF THE SCHOOL CIRCLE, NORTH-WESTERN PROVINCES AND OUDH; FOR THE FOREST YEAR 1892-93, ENDING ON 30TH JUNE 1893.

CHAPTER I.

Extension and Constitution of State Forests.

(i)—Alteration of Area.

The area of the forests of the circle has undergone but little change during the year. Form No. 46 shows a nominal addition to the reserves, owing to the transfer of a portion of the Lalwála block from the Central Range to the Western Range of the Saháranpur Division. It also shows an increase of one acre under IV "Unclassed State Forests," due to the inclusion of the sites of Forest Chaukis at Sahanspur, Raipur and Barkot in the Dehra Dún Division, which were formerly acquired, but never before brought on the list. Ninety-four acres referred to in last year's report were ceded to Messrs. Powell in the Saháranpur Division.

2. These changes reduce the area to—

	Acres.
Reserved forests	4,60,796
Leased "	49,740
Unclassed State forests	8,928
Total ...	5,19,464

or 812 square miles on 30th June 1893. The decision of Government as to the exclusion of the five detached portions of the Pathri Forest was received during the year, and their retention by the Forest Department was finally decided upon.

3. The question of the re-notification of the boundaries of the Jaunsár Division is under discussion, and when something is done either by a new settlement or otherwise, many areas now inside the forests can be excluded. The Conservator is of opinion that there is no alternative but a new settlement, as regards land claims, for the descriptions of boundary given in the original notification are, almost, if not quite, impossible to trace on the ground or on the more recent and accurate maps. Fresh draft Notifications for the Dehra Dún and Saháranpur Forests are under preparation.

4. The following progress has been made with regard to the information regarding pasture lands, &c., at the disposal of the State.

In the Dehra Dún Division, the Divisional Officer states that the waste lands at the disposal of the State are included in ten blocks, with an area of 8,368 acres. Of these the Superintendent of the Dún is of opinion that three blocks aggregating 2,513 acres should be permanently retained in the grant list; that one block of 880 acres over which Messrs Lister and Company have the right of pre-emption till the end of 1896, if not purchased before that time, be made into a grazing ground in 1897, and that the rest, with an area of 4,975 acres, be formed into a grazing ground at once, subject to the condition that the annual firing of grass should, as hitherto, be continued in the area. One of the blocks which is enclosed by the Tirsal Forests, the Divisional Officer proposes to include in the area of that forest, but retaining it as a grazing ground.

The condition regarding fire is one which the Conservator is in doubt about. It would hardly be in accordance with the present ideas respecting Reserved Forests that any area should be reserved carrying with it such a condition. The lands in question (Bibiwala) are mostly long grass, it is true, and their firing, to some extent, is often necessary as a matter of precaution in order to safeguard neighbouring timber forests, but still there are patches of forest here and there in those lands which ought to be

protected, and in the Conservator's opinion the question should be left in the hands of the Forest Officers, the professional Government Agency. The Conservator thinks that without firing except for purposes of protection to more valuable areas, the state of the grass would, under grazing, more speedily improve and the long grasses disappear and be replaced by smaller and better kinds, for fire has a distinct tendency in his opinion to encourage coarse species at the expense of the finer ones.

5. No such lands are apparently available in the Saháranpur District owing to the nature of the land tenure. As regards the Jaunsár Division the Divisional Forest Officer is of opinion after having consulted the Superintendent of the Dún that there are no areas of third class forests or waste lands outside them, which could be formed into 2nd class reserved forests without undue hardship to the people. When the settlement was made the 3rd class forests were given over to the villagers as their own and the Superintendent expresses his doubt if they could legally be taken over during the currency of the present settlement, and formed into reserves. The Conservator is of opinion that the sub-division of forest lands in Jaunsár is not a very good one, but that the present reserved forests include all that it is necessary to retain as a permanent estate and that the 3rd class Forests could not, in view of the promise given at settlement, be now interfered with.

(ii)—Forest Settlements.

6. The settlement of the eight small pieces of forest land in Malkot Ilaqua, referred to in paragraph 5 of last year's report, was carried out by the Superintendent of the Dún as Forest Settlement Officer. The result established that the villagers possessed no *rights* therein, but in his capacity as Superintendent, Mr. G. A Tweedy, C.S., recommended the grant of certain concessions. The forests were gazetted as reserved after the close of the year.

7. The Conservator, after an inspection with the Divisional Officer, considered that it would be advisable to retain as reserved forests about 300 acres of the Uparla Song block, which was disafforested during 1891-92, as a valuation showed the area to be well stocked with khair, and there can be no possible dispute about its boundaries. His proposals are before Government.

8. Careful enquiry was made as to the status of the various patches of cultivation in the forests of the Bawar and Deogarh Ranges of the Jaunsár Division. Ten patches have been formed into "chaks" and demarcated. Two small areas in Chatri and Ninus blocks were bought up, and arrangements are being made for the acquisition of 10 or 12 other patches.

9. The Mussoorie Municipality were unable to come to terms with the neighbouring villagers with a view to place the unoccupied lands under proper management, and have applied to Government to take the same under the Forest Act. The want of proper forest reserves is being felt, and it will be an advantage to Mussoorie if a fuel preserve, large enough to meet the increasing demands of the station, can be formed. The Conservator understands that the subject has the attention of the Superintendent.

(iii)—Demarcation.

10. In the Dehra Dún Division the boundary records prepared by Mr. Grenfell, Assistant Conservator, are still under comparison. It is hoped that before another year ends, the records will be all revised and made complete. The pillars in the Tirsal Range and in the Lachiwála and Thano Forests were renumbered and 45 new masonry pillars were erected, 69 temporary *kutcha* pillars were also erected around the new reserves in the Malkot Forest. Ten miles of boundary ditches were dug, of which 3½ miles formed the outer ditch of the new boundary road in the Jamna Range. Other ditches were dug along the boundaries of the Dholkot and Thano Forests and of the Ramgarh and Tirsal Ranges.

11. In the Saháranpur Division the boundary is correctly defined by a ditch in the Central Range, and five miles of boundary has been ditched in each of the Eastern

and Western Ranges, of which portions have been planted with aloes, where cultivation does not come up to the boundary. Where, however, cultivation thus come up to the forest boundary, the cultivators plant their own hedge and a ditch is sufficient to prevent encroachment. There seems reason to think that the expedient of a good aloe hedge will be a cheap and successful means of marking and protecting the boundary line, especially where assisted by a good road or path inside it.

The pillars have not yet been numbered, as until the boundary has been cleared and ditched throughout, it is impossible to say what intermediate pillars will be required. The numbering of pillars consecutively beginning from Hardwar and proceeding westward will be undertaken next year.

12. In the Jaunsár Division an attempt has been made to separate main and "chak" boundary lines, and Form No. 48 shows the work done in each. The total length of main and "chak" boundaries in the division, including the leased forests, are 517 and 48 miles respectively, of which the length of natural boundaries not requiring artificial marks are 245 and 12 miles respectively, leaving 272 and 36 miles of artificial boundary, of which 112 and 29 miles have been demarcated by cut or cleared lines up to the end of 1892-93. The following is the usual return of demarcation as given by Divisional Officers :—

Division.	Pillars.	Boundary lines (main) demarcated.	Boundary lines of ("chaks") demarcated.	Cost of maintenance.	Pillars requiring repairs at the close of the year.
	Numbers.	Miles.	Miles.	Rs.	Numbers.
Dehra Dún	913	218	...	1,035	139
Sahárunpur	720	122	...	505*	128
Jaunsár	2,207	112	29	1,845	257
Total ...	3,840	452	29	3,385	524
1891-92 ...	3,610	471	...	4,140	776

* Not including Rs. 1,188 charged in the current year for work done during 1891-92.

13. The disputed boundaries referred to in last year's report in connection with adjoining Punjab Hill States, have not yet been settled. A new dispute has arisen regarding the position of the main boundary, between pillars Nos. 7 and 8 of the Kalsi Forest, but it is not expected to cause any difficulty.

(iv.)—Surveys.

14. In the Dehra Dún Division, considerable progress was made in the preparation of Range maps, those for all the six ranges are well forward and only need a few additional details to be ready for printing.

15. The only surveys made in the Sahúranpur Division were in the Tira and Mohand coppice working circles, where the principal compartment lines were laid out by Mr. Grenfell.

16. In Jaunsár a temporary surveyor was employed for six months on the survey of certain boundaries in the Bawar and Deogarh Ranges. He also surveyed ten "chaks" in the Bawar Range. Two "chaks" were also surveyed in the Kalsi Forest. The total length of main and "chak" boundaries surveyed, was 28 miles, and the cost was Rs. 266. Rs. 361 were also spent by the Superintendent of Forest Surveys in connection with the preparation of maps of the Tehri Leased Forests, which are now nearly completed. The work remaining to be done consists of :—

	Acres.
Resurveys of "chaks" in the Deobau Range	712
New "chaks" in the Deogarh range	300
Ditto in Bawar range	200
Total ...	1,212

CHAPTER II.

Management of State Forests.

I.—Regulation of management.

(a) Working Plans and their control.

17. The preliminary report as required by section 83 of the Code for a Working Plan for the Saháranpur Division, was submitted to the Inspector-General of Forests and received his sanction. The collection of materials for the same was commenced during the year, the description of the hill blocks in the Eastern Range having been completed. Provisional Plans have been drawn up for the management of the bamboo forests, and the Mohand coppice Working Circle which will be incorporated in the plan for the division. The Divisional Officer, Mr. Grentell, is carrying out the work.

Existing Working Plans.

18. *Dehra Dún Division.*—The new regulations for the working of the bamboo forests and for planting bamboos, referred to in last year's report, were sanctioned by Government and put in force. A scheme for climber cutting in the forests in the Siwaliks above the Hatiwála Line has also been approved by Government, and work will be begun next year. The abandonment of the Khairi coppice and of the strip system of felling in the Suswa coppice were approved by Government. A small Working Plan for the latter was submitted by the Divisional Officer after the close of the year. The question of altering the basis of working in the Thano Working Circle, is still under discussion; but the Conservator thinks that as the revision time is so near at hand it may possibly be best to wait till then. Without very good professional agency it would be difficult to apply the 'Uniform method' in practice. Supplementary Working Plans for the Chir, [Semla and Lime fuel producing forests of Malkot, will shortly be got ready. The existing Working Plan has been carried out.

19. *Jaunsár Division.*—The Conservator is glad to be able to report that the Working Plan arrangements are now being more carefully attended to.

Deoban Working Plan.

20. *Karamba Working Circle.*—Fifty Deodar trees were felled in Karamba and sawn up into scantlings for the Military Works Department, but as the total number of trees felled had exceeded the Working Plan arrangements, a special report was submitted to Government and sanction obtained to the postponement of the Deodar fellings in the block for five years. The remainder of Konain, compartment 4, was marked over, but as all the fuel was not required the fellings were not completed within the year. No girdling work was done in Karamba, the work having been already done in the previous year.

Lokandi Working Circle.

21. At Khopti 1 and 2, 30,830 cubic feet of Fir fire-wood were cut. Fifty-two acres were thinned out in Khopti 4 and 2. The Asmari fenced area has been completed and the area closed. Sub-compartment (*a*) at Bodyar, aggregating 28½ acres, was sown and partly planted, as far as plants were available in accordance with the revised scheme sanctioned in G. O. No. $\frac{464F}{868-77}$, dated 5th June 1892.

Deoban Working Circle.

22. In Kanjatra 5, 2,950 cubic feet of Oak and 9,750 cubic feet Fir were cut. In Kanjatra 1 and 2, 45 instead of 28 acres laid down in the revised scheme, were sown with Rai and Morinda, 2,656 ordinary and 780 basket plants being planted out in compartment 1.

Kalsi Coppice Working Circle.

23. The fellings in Haripur, compartment 7, were completed, and 28 acres of compartment 6 were also done.

Raura Working Circle.

24. No fuel being required at the rifle range depôt, 5,475 cubic feet were cut and supplied at the parade-ground depôt to the Commissariat. The fellings are still behind the Working Plan.

Ban Oak Coppice.

25. Compartment 15 of Korwa Forest was felled, and as the fuel was not wanted for lime burning it was carted to Chakráta and supplied Commissariat. Kukat fuel was supplied to the brewery. The plantation in compartment 1 was extended by 2 acres only; no more plants being available.

Bhujkoti Working Circle.

26 Special sanction was obtained for the felling of dry trees and continuation of fuel works in compartment 4, Siari, where 1,774 Rai scantlings were cut and 15,950 cubic feet of dry fuel. A scheme for the utilization of the available mature Deodar for Military Works purposes is under preparation.

Pandawa Working Circle.

27. The fuel available not being required for lime burning as provided in the Working Plan, special sanction of Government was obtained to the felling of 10,000 cubic feet for the Commissariat supply, and 6,890 cubic feet were actually cut during the year.

Matkangra Working Circle.

28. One thousand three hundred and five cubic feet of Oak and 850 cubic feet of mixed fuel were only cut.

Cantonment Working Circle.

29. Three thousand one hundred and fifty cubic feet of Oak and 1,250 cubic feet of Kukat were cut during the year, being slightly in excess of the amount available under Mr. Hearle's Revised Scheme. At the instance of the Cantonment Magistrate, a new scheme has been prepared and is under discussion.

General.

30. Two and a half miles of main boundaries were demarcated by cut lines or paths, the unprecedented falls of snow during the winter prevented more being done.

Mundali Working Plan.

31. The sawing up of the dead timber at Lakhna and Tutwa blocks were continued. Thinnings and girdlings over 130 acres in compartments 16 and 17 were completed. Nine acres were planted at compartments 9, 10 and 13, and owing to want of plants no more work could be done. One hundred and fifty patches were made under fertile Deodar trees at Tutwa block.

Chir Forests Working Plan.

32. A revised scheme of working was sanctioned in G. O. No. $\frac{1068F}{963}$, dated 19th December 1892, limiting the sale to 2,600 trees besides the 513 free grant trees in the areas prescribed for each year. One thousand nine hundred and fifty-one trees were sold during the year, 421 trees remaining unsold in the balance of compartment 2, Kunigad.

Tehri-Garhwal Working Plan.

33. Fellings were continued in the Temple and Dopta blocks. The workings are still one year behind the Working Plan. The ringing of useless kinds prescribed for the year were done in the previous year. The *planting* works in Lohasú and Pipal were completed. Eight hundred green and dry trees were sold from the Balcha and Murali blocks. The Bamsu sledge road was commenced and about two-thirds completed within the year. The Conservator considers that the Divisional Officer and his subordinates have taken great pains with this important work.

(b) *Annual Plans of Operations.*

34. These have generally been carried out and good work done. In the Saháranpur Division, the following deviations were made :—

(a) Climbers were cut over in Baniawála and not in the Gaj block.

(b) Climbers were cut in compartments 1 and 2 of the Moland coppice.

(c) The Ranipur coppice was cut, and worked departmentally owing to the low price offered at the auction sales, Rs. 200, resulting in a net surplus of Rs. 345. Some of the work was done by Forest School students.

(d) Five hundred and twenty-one chír trees were cut up into *kuris*, and the produce sold departmentally, showing a profit of Rs. 370.

II.—Working of the year.

(a) *Communications and Buildings.*

35. *Roads and Communications.*—Form No. 51 shows in detail the expenditure on capital works and maintenance charges respectively, amounting to Rs. 10,100 and Rs. 11,594. In the Dehra Dún Division Rs. 2,147 were spent on the construction of 15 miles of new cart-roads, and 14 miles of inspection paths, mostly on the Siwalik ridge-path. The following were the chief works done :—

Capital.

	Miles	Rs.
(1) Karwapani-Jumna road	5	414
(2) Algoha road	2	494
(3) Lachiwála-Kaluwála road	1	290
(4) Lachiwála coppice road	3	167
(5) Nichla-Suswa coppice road	1	88
(6) Siwalik ridge-path	9	343
(7) Bibiwála inspection path	4	115
Smaller minor works	4	236
Total ...	29	2,147

Maintenance.

	Miles.	Rs.
General repairs to 247 miles of export and other roads and 65 miles of inspection paths	312	3,207
Total ...	341	5,354

36. In the Saháranpur Division Rs. 791 were spent, Rs. 332 on Capital; including a contribution of Rs. 100 to the Dehra Dún Division for the construction of the Siwalik ridge-path and Rs. 459 on maintenance. The capital expenditure includes cost of two miles of Andheri-Shahidwála export road, as also cost of a masonry bridge on the Khara-Hardwar road at Daukidar, Rs. 88. Rupees 577 were spent on the repairs of 51 miles of the Khara-Hardwar road, of which Rs. 330 were contributed by the District Board.

37. In the Jaunsár Division, Rs. 13,918 were spent, of which Rs. 7,621 on Capital and Rs. 7,588 on Maintenance. Of this sum Rs. 1,291 were contributed by the District Board.

The following were the chief works done :—

Capital.

	Miles.	Rs.
(1) Part construction of Bamsu sledge road works ...	2	6,874
(2) Sleeper carrying and inspection paths in the Deota, Raiengarh and Dadi Forests	16	416
(3) Fuel carrying paths in Korwa, Khopti, &c.	4	133
(4) Bindri-Batnsugnd paths	3	198
Total ...	25	7,621

Maintenance.

	Miles.	Rs.
(1) Tons-Simla road ... ... Rs. 1,201 were from District Board.	22	4,126 of which
(2) Deohan road	2	338
(3) Other roads and paths	124	3,124
Total ...	148	7,588

The extensive repairs were necessitated by the damage caused by the heavy rains of 1892, also by the heavy snow fall of the winter of 1892-93. The repairs of the Tons road were principally undertaken as a famine relief-work and were of considerable benefit to the inhabitants of Jaunsár. About Rs. 500 were spent in cutting snow from this road in order to open traffic with the Deota Forest works. The Bamsu sledge road works were commenced in November and continued steadily throughout the remainder of the year, though they were considerably interfered with in the upper section by the heavy snow fall. The total length of roadway constructed was 15,228 feet, out of a total length of 18,976 running feet. The roadway was laid and the sledge road completed over a length of 5,162 feet, the work being found particularly heavy on the middle section where much blasting had to be done. The greater part of the work on the bridges was also completed, nearly half of the work having been finished during the year, as well as the buildings required in connection therewith. Jaunsár has now got 1½ mile of carting road, 128½ miles of bridle roads and 411 miles of inspection, &c., paths.

38. *Bridges.*—No new bridges were constructed during the year. But in connection with the transport of broad gauge sleepers for the North-Western Railway, many of the bridges on the Thadiar sledge road had to be strengthened. The bridges over the Tons at Naintwar and Datmir were inspected and found unsafe, so they will be reconstructed.

39. *Buildings*—In the Dehra Dún Division, Rs. 1,764 were spent on capital works and Rs. 1,452 on repairs of buildings. Rupees 648 and 753 respectively, were spent on the construction of a Rangers' headquarters at Jhajra and Barkot. Forest guards' chaukies were built at Barkot and Gular Parao at a cost of Rs. 130 and Rs. 159 respectively, while Rs. 52 were spent on the construction of a kitchen and stable for the Ranger at Karwapani and Rs. 22 on the building of a shed for the mahout at that place.

The repairs include an expenditure of Rs. 228 for the re-thatching of the Karwapani rest-house, and putting up a new ceiling cloth. Rupees 97 and 39 were spent on similar work to the Parduni and Kansrau rest-houses.

40 In the Saháranpur Division, the new works cost Rs. 1,321, Rs 459 being part cost of construction of a Rangers' headquarters at Barkala. Rupees 493 were spent on the construction of a chauki at Beribara, whilst part cost of similar buildings at Bagawála and Chirak amounted to Rs. 48. A kutcha masonry kitchen at Kasumri cost Rs. 268 and stables were erected at Ránípur and Sháhjahánpur at a cost of Rs. 24 and 20 respectively. Rupees 933 were spent on the maintenance of existing buildings including the repairs of the Kasumri rest-house, the Pathri rest-house and buildings, the Divisional Office, the Beribara rest-house and the Rangers' headquarters at Dholkhand.

41. In the Jaunsár Division, Rs. 2,112 were spent on the construction of new buildings, of which Rs. 1,270 were spent on the reconstruction of the Konain bungalow, and Rs. 330 on the buildings in connection with the Bamsu export works.

The maintenance charges amounted to Rs. 2,926 of which Rs. 314 were spent on the Divisional Officer's bungalow and other buildings at Chakrata, Rs. 206, Rs. 297 respectively, on the godown and buildings at Deota and Dakhpathar and Rs. 61 on the Range headquarters at Mundali.

42. In the Direction Division, Rs. 105 were spent during the year on the construction of a shed for potting plants, but the work was not completed within the year

The total amount spent during the year on buildings was Rs. 10,615 of which Rs. 5,302 on capital expenditure and Rs. 5,313 on maintenance.

(b).—Protection of Forest from injury.

43. (1) *General protection and breaches of Forest Law.*—Form No. 52 gives the prosecutions for forest offences during 1892-93. The number taken into court was 10 as against 13 in the previous year; two cases were pending at the beginning of the year. In eight cases out of 12, *i.e.*, 66·6 per cent. convictions were obtained. The cases were not of much importance and do not call for special remarks.

44. The number of cases disposed of under section 67 of the Forest Act was 123 out of 135 sent up as against 86 cases out of 92 disposed of in the previous year. The cases were mostly of small importance. The increase is accounted for by the current forest year referring to 15 instead of 12 months. The most important case was one in which eight men caused fire by smoking, but they confessed in the expectation of being leniently dealt with and consequently were not prosecuted, the fire being due to an accident. Rupees 715 were received as compensation, of which Rs. 37 were paid as rewards to forest guards.

45. (2) *Protection from fire.*—The following statement shows the fire conservancy operations of the past and the previous year :—

Division.		Total area.	Area attempted to be protected.	Percentage of area attempted to total area.	Area actually protected.	Failures.	Percentage of failures to area actually protected.	Cost during the year.	Cost per acre of area actually protected.
		Acres.	Acres.		Acres	Acres.		Rs.	Pies.
Dehra Dún	1891-92...	176,145	157,222	89·25	156,421	801	0·51	2,873	3·52
	1892-93...	176,145	157,222	89·25	157,218	4	0·02	2,261	2·76
Saháranpur	1891-92...	188,564	142,878	75·93	141,956	922	0·65	1,386	1·87
	1892-93...	188,470	157,844	83·75	156,990	854	·54	1,144	1·39
Jaunsár ...	1891-92...	146,447	106,000	72·38	105,297	703	0·65	1,614	2·94
	1892-93...	146,447	109,597	74·83	109,451	146	·13	1,378	2·41
Total ...	1891-92...	511,156	406,100	79·44	403,674	2,426	0·59	5,873	2·79
	1892-93...	511,062	424,663	83·09	423,659	1,004	·19	4,783	2·16

46. The season has been altogether a remarkable one, and exceptionally favorable for fire protection. In the plains divisions, rain was frequent from the end of December on to the middle of June when the regular monsoon set in. In the hills an unprecedented and early snowfall as well as the fact of showers occuring all through April, May and June, helped the fire conservancy which may be said to be the second most favorable on record.

47. The following was the amount of rain received at Dehra Dún during the period September 1892 to 30th June 1893 inclusive :—

			Amount.	Chief falls.
September 1892	...	...	9·53	6th, 8th, 14th and 15th.
October "	...	...	...	
November "	...	...	...	
December "	...	...	·75	
January 1893	...	...	4·34	4th, 25th and 28th.
February "	...	...	6·87	8th, 17th and 25th.
March "	...	...	1·81	
April "	...	...	·50	
May "	...	...	2·76	
June "	...	...	6·46	12th, 17th (when regular monsoon set in.)

The above rainfall helped the growth of new grass in March and April, and it was with difficulty that the fire lines could be burnt, and the burning had generally to be done twice in the Dehra Dún Division.

48. The returns of the year compared with those of 1890 show the following results :—

I.—Increase in area attempted	18,563 Acres.
II.— Ditto protected	19,085 „
III.—Percentage of total area of forest under protection (83 09) increase	3 65 p. ct.
IV.—Decrease in expenditure	1,090 Rs.
V.—Percentage of failures to area actually protected (·59) decrease	·40 p. ct.
VI.—Area attempted in hills	1,09,597 Acres.
VII.— Ditto plains	3,15,066 „
VIII.—Cost per acre attempted 2 13 pies decrease	·64 pies.
IX.— Ditto protected 2·16 pies decrease	·63 „
X — Ditto of hill forest attempted 2·41 pies decrease ...	·52 „
IX.— Ditto of plains forest attempted 2·07 pies decrease ...	·85 „

49. The changes in areas under protection are summarised as follows :—

In the Saháranpur Division—

	Acres.
Western Range	10,152
Central „	4,814

In the Jaunsár Division—

Deoban Range	2,968
Bawar „	300
Deogarh „	493
Total ...	18,727

The addition of new areas in the Saháranpur Division, is due to the closing to fire in the Western Range areas hitherto open, and the open portion of the Lalwála and Baniawála blocks of the Central Range as also of the addition of an area of 500 acres of the Sakrauda forests. The increased area in the Jaunsár Division comprised certain Oak forests in the Deoban Range and Chir forests in the Bawar and Deogarh Ranges, the portion at Dadi being a deodar forest. Mr. Moir reports that the closing of the areas were reported to the Superintendent of the Dún and the Superintendent of Hill States, Simla, and it was fully ascertained that the areas are at considerable distances from villages, and that the villagers have no particular cause of complaint of hardship attending their being closed from fire. This closing has no way affected the grazing arrangments.

50. The following statement shows the cost of fire protection in each Division:—

Division.		Area actually protected.	Percentage of total forest area protected.	Length of fire lines.	Cost.					
					Clearing lines.	Burning lines.	Fire patrols.	Extinguishing fires, &c.	Total.	Per acre.
		Acres.		Miles.	Rs.	Rs.	Rs.	Rs.	Rs.	Pies.
Dehra Dún,	Average of 13 years ...	88,926	...	...	...	.		...	3,634	7 39
	1891-92	156,121	99·49	350	698	805	1,281	86	2,873	3 52
	1892-93 ...	157,218	99 99	350	621	769	861	7	2,261	2 76
Saháranpur	Average of 13 years ...	72,716	. .	...	...	...	.	...	2,307	6 08
	1891-92	141,956	99 75	121	299	123	931	33	1,386	1 87
	1892 93	156,990	99 45	151	272	89	783	...	1,144	1 39
Jaunsár ...	Average of 13 years ...	79,487	...	...	...	...	...	..	1,332	3 21
	1891-92	105,297	99 83	385	104	1,006	292	212	1,614	2 94
	1892-93	109,451	99·86	368	93	1,015	239	31	1,378	2 41
Total ..	Average of 13 years ...	241,159	...	...	...	.	...	...	7,273	5 79
	1891 92	103,674	99·40	856	1,101	1,934	2,507	331	5,873	2 79
	1892-93	123,659	99·76	869	989	1,873	1,883	38	4,783	2·16

The cost is lower than last year in all the Divisions, for the circle it has fallen from 2·79 to 2·16 per acre.

The area burnt during the last fire season was 1,004 acres, as compared with 2,426 acres burnt during the previous year.

51. The causes of the different fires for the past six years may be classified under the main heads as below :—

Year.	I. By Forest establishment when burning fire lines.		II. Fires which entered the forests by crossing exterior fire lines.		III. By workmen not in forest employ by accident.		IV. By villagers, travellers, or soldiers by accident.		V. Fires caused by lightning.		VI. Fires maliciously lighted inside the forests.		VII, Causes unknown.		VIII. Total.	
	No.	Area in acres.	No.	Area in acres.	No.	Area in acres.	No.	Area in acres.	No.	Area in acres.	No.	Area in acres.	No.	Area in acres.	No.	Area in acres.
1892-93	5	143½	...	...	3	856¼	2	4	1	½	...	...	...	...	11	1,004¼
1891-92	6	37¼	2	125	1	12	9	555½	1	¼	8	1,653	3	42½	30	2,426
1890-91	1	1	1	10	1	3	3	8	1	8	...	...	3	345	10	375
1889-90	10	1,441	4	6,568	4	281	8	1,842	...	...	3	7,172	7	1,715	36	19,019
1888-89	1	2	4	18,697	1	1	10	1,989¼	...	...	5	10,825	1	125	22	31,639¼
1887-88	9	2,506	1	7,756	1	410	10	357	1	263	3	4,163	10	3,303	35	18,758

52. The following table gives the details of the fires which occurred during the year :—

No.	Range.	Block.	Date of fire.	Year of protection.	Area burnt.	Remarks as to cause of fire.
			DEHRA DÚN DIVISION.			
1	Ganges ...	Johra ...	26th November 1892.	1883	4	Carelessness of coolies engaged in cutting fire line leaving a *hookah* alight.
			SAHÁRANPUR DIVISION.			
1	Western ...	Barkala ...	3rd April 1893.	1885	½	Caused by lightning.
2	Do. ...	Sháhjahánpur.	4th March 1893.	1887	6	Accidentally lighted by sawyers working in the forest.
3	Central ...	Rasúlpur ...	13th March 1893.	1879	848	Caused by exporters of thatching grass, by accident.
			Total ...		854½	
			JAUNSÁR DIVISION.			
1	Deoban ...	Mohna ...	13th December 1892.	1872	½	Accident whilst burning fire lines the place being a very difficult one.
2	Do. ...	Matkangra . .	15th April 1893.	1872	2	Supposed to have been caused by soldiers smoking in the forest.
3	Do. ...	Kanjatra ...	22nd November 1892.	1872	2½	Caused by carelessness of Afghani grass cutters who were fined Rs. 20.
4	Do. ...	Punaha ...	15th April 1893.	1892	2	Supposed to have been caused by villagers. Enquiry pending at the close of the year.
5	Bawar ...	Ninus ...	2nd March 1893.	1872	2	Probably due to carelessness of coolies and Forest guards. The latter were fined.
6	Do. ...	Rangwar ...	Do. ...	1884	12	
7	Deogarh ...	Jutal ...	20th December 1892.	1880	125	Carelessness of coolies and probably inexperience of Forest guard whilst burning fire line. The Forest guard was fined, and coolies had their pay cut.
			Total ...		146	

53. In the Dehra Dún Division, the only fire was in the Motichur forest, where four acres were burnt by the carelessness of coolies engaged in cutting fire lines.

54. In the Saháranpur Division the chief fire was that which burnt 848 acres of the Rasúlpur block. This fire was caused by the carelessness of some exporters of thatching grass who were smoking after their midday meal, and a spark from a *hookah* set the grass on fire and before they could beat it out, it had spread to a number of dry bundles of grass which blazed up at once. The strong wind which was blowing at the time caused a serious conflagration which could with difficulty be extinguished on the borders of the surrounding forest. The Divisional Officer says that "more than half the area thus burnt was absolutely devoid of tree growth."

The Conservator agrees with the Divisional Officer in thinking that the damage done was very small in reality. The area concerned would, unless it were planted up, scarcely ever be of use for any purpose but grazing for which it is valuable.

55. In the Jaunsár Division there were several small fires. The chief fire was that in the Jalal block of the Dadi forest. The Divisional Officer says, that " the fire lines at this place are difficult to burn, that the area mainly consisted of grass and that little damage to deodar has been done."

In connection with the fire which occured in the Raiengarh forests, and referred to in paragraph 13 of last year's report, an area of 190 acres has now been closed to grazing by order of the Superintendent, Hill States, as a punishment to the neighbouring villagers.

56. The Divisional Officer, Saháranpur, reports that besides the three fires already referred to in that division an attempt was made to burn the newly protected area in Lalwála and Baniawála blocks by lighting a fire and leaving it burning in two different spots on the same day. This luckily did not spread to the surrounding forest and no damage was done. Except this case, little or no opposition has been expressed by villagers to fire protection.

57. No areas have this year been fired in the Dehra Dún Division as a measure of precaution. In the Saháranpur Division, the open part of the Sendhli block, and the part of the Pathri forest adjoining the plantation were fired, but it is impossible to say exactly how much of the area is burnt as the fire is started from the protected blocks and allowed to spread until it goes out of itself.

58. In the Jaunsár Division, permission was given to fire the area formerly closed at the Hartar forest, Chandingadh block, but owing to the late snow and continued showers during the spring the grass was so green that it would not burn though two or three attempts to fire it were made. In other areas of open 2nd class forests the same cause operated and no areas were burned. Fires were entirely kept out of the open parts of Khunigad, Chatra and Motta blocks, aggregating 6,500 acres, due to the favorable season and extra supervision exercised by the protective establishment.

59. As last year, the rules of Government Order No. 349F of 2nd May 1891, are said to have worked well. In the Dún Division, two cases of their infringement were reported, but in neither case was any damage done to the Government forests. In the Saháranpur Division, the Divisional Officer reports that " notice of the rules was given to all villagers and land-owners, but a large fire took place in the grass lands outside Harnaul block which would have endangered the forests unless extinguished by the activity of the Range Officer. This fire was obviously lit with the intention of burning the surrounding grass land, but no notice of any intention to do so had been given to the Range Officer."

In the Jaunsár Division, the Divisional Officer reports, that the rules are now well known to the neighbouring villagers and no cases of fires due to that cause have been reported.

60. Regarding the rules sanctioned for the better protection of the open portion of the 2nd class forests, arrangements are being made in communication with the Superintendent of the Dún for their gradual introduction.

61. *Regulation of grazing and protection from cattle.*—Form No. 54 shows the areas closed and open to grazing in the three classes of forests. The following statement shows the areas closed and open as compared with the previous year :—

Division.	Total area.	Area closed to grazing including those closed for part of year to browsers.	Percentage of total area closed.	Area open to grazing.	Remarks.
	Square miles.	Square miles.		Square miles.	
Dehra Dún	289	247	85·46	42	
Saháranpur	295	100	33·89	195	
Jaunsár	229	67	29·26	162	
1892-93 ...	813	414	50·92	399	
1891-92 ...	812	237	29·18	575	

62. The Divisional Officer, Dehra Dún, is of opinion that the figures are probably not quite accurate, but hopes to revise them carefully as soon as the new grazing rules are issued. Mr. Grenfell is of opinion that grazing is practicably unregulated as regards the number of village cattle that graze in the open blocks, but says that an attempt has been made to limit the number of Gujars' cattle to 1,700 and to exclude them from blocks which are best stocked with Sál and Saín. He considers that the protection of open blocks from trespass is difficult, and hopes that the responsibilities of owners of cattle and the duties of herdsmen will be fixed in the new rules to be issued shortly. This has been done.

63. In the Jaunsár Division, the area closed is only about 30 per cent. of the whole Division. In the leased forests of Deota, Lambatach, Raiengarh and Dadi the whole areas are nominally closed to grazing, but up to the present, sheep and goats are allowed to browse in the high level Oak portions where there is no Deodar. All the valuable and important portions of Deodar and Oak forests have been closed, but some further closing of Oak forests in the vicinity of Chákrata is desirable. But under the settlement arrangements this cannot be done without opening other forests within 12 miles of Chákrata which is at present impracticable. The Gujar grazing was regulated as in the previous year and no serious disturbances with villagers took place.

64. Form No. 55 shows the actual head of cattle grazing in the State forests of the Division as well as the estimate of the grazing dues of the year including the actual value and estimate at full rates for privileged cattle. As stated in last year's report the value of the return is doubtful in consequence of the difference in length of period for which the different classes of cattle use the forests. Camels chiefly graze on pass available for one fortnight only. For buffaloes the rates vary from Rs. 1-8-0 for Gujars' buffaloes in Jaunsár to Re. 0-4-0 for privileged animals, Re. 0-2-0 a day being charged on each buffalo overstaying at each camping ground. So with cows and bullocks, sheep and goats and other animals the rates vary considerably.

65. *Grazing dues.*—The past and present receipts on this account compare as follows :—

	Receipts.	Outstandings at close of year.
1890-91	18,690	8,315
1891-92	34,189	495
1892-93	31,515	229

The outstandings at the close of the year amounted to Rs. 87 in the Dehra Dún and Rs. 142 in the Saháranpur Division.

66. It is believed that the new grazing rules have received Government sanction and the Conservator fully believes that their introduction, and especially the arrangements for opening and closing in rotation will benefit both the forests and the villagers. The present system of having a hard and fast arrangement of certain areas always open and certain areas always closed is of very doubtful value, and the Conservator is glad to have found himself in entire accordance in his views on this point with the Collector of Saháranpur.

(c) Improvement of Forest growth.

(1)—*Natural Reproduction.*

67. As regards Jaunsár Division, there is little to add to the previous years remarks on this head. The reproduction of Deodar (*Cedrus Deodara*), Chir (*Pinus longifolia*), Kail (*Pinus excelsa*) continues to make satisfactory progress in all areas closed to fire, that Chir being especially noticeable in the Banadaar and Ninus blocks. The reproduction of Ban Oak (*Quercus incana*) in all areas closed to fire and grazing is also good. The winter was a very severe one, and great injury was done by frost to Sál seedlings in exposed localities in the Dehra Dún Division.

In the Saháranpur Division, the Divisional Officer remarks, natural reproduction by seed is nowhere good except in the higher Siwaliks where the reproduction of Chir (*Pinus Longifolia*), Bakli (*Anogeisses latifolia*), Harsingar (*Nyctanthes Arbor-tristis*) is excellent, and also in the blocks that are closed to grazing along the raus where there is a dense growth of young Khair (*Acacia Catechu*) and Shisham (*Dalberya Sissoo*).

Sál (*Shorea robusta*) did not seed well, nor did other plains trees, but in the hills there was a fine crop of Deodar seed. The Kail failed. On the other hand the Oaks seeded well.

(2) *Artificial reproduction.*

68. The work and expenditure under this head compare as follows with that of last year—

	Expenditure.		Additional area.	
	1891-92.	1892-93.	1891-92.	1892-93.
Dehra Dún	1,020	3,314	..	40
Saháranpur	432	679	165	55
Jaunsar	2,192	5,174	29	208

69. In the Dehra Dún Division, the only work was the planting up of certain areas with bamboo. That in the Johra block is prescribed by the working plan, and nearly 4,000 plants were planted on the old very insufficiently stocked area at a cost of Rs. 1,159, the land having previously been well ploughed up and fenced. It has not been very successful for the grass is very heavy and reproduces very quickly.

70. The planting at Rámgarh was undertaken in order to complete a piece that had been partly done some years ago, and which had not been fully cared for. The plants put out were Burmese "*Thaikwa*" and the area operated on was 23½ acres on which about 4,500 plants were put out at a cost of Rs. 922 which included the expenditure on properly preparing the ground. The Conservator has been much pleased with the results obtained with the Burmese bamboos, which reflect credit on the Forest Ranger, the late Subadar Sharif Ali. The seedlings were reared at the Forest School.

71. The work at Lachiwála consisted in the planting up of a strip of very poor forest on good soil between the road to Bulawála and the boundary of the forest. About 16 acres were gone over and filled with about 7,000 plants at a cost of Rs. 1,029. The cost includes the expenditure on ploughing and preparation and the Conservator understands that the Divisional Officer has taken steps to reduce the cost materially.

A good deal of this planting work, as also the planting of half an acre of Chir pine at Lachwála, is undertaken as a measure necessary for the teaching of the students of the Forest School; but apart from that the Conservator considers that these bamboo forests will, after a few years, help to supply one of the wants of the Dún valley a better provision of good bamboo for native building purposes.

The species planted were mostly Burmese kinds, *Thaikwa* (*Bambusa burmanica*) and *Thanatwa* (*Bambusa Oliveri*), and the clumps which are 15 feet apart are interplanted with teak. They are all doing very well and have every prospect of being very successful.

72. In the Saháranpur Division about five acres were planted at Ranípur with offsets of bamboos, bamboo seedlings and teak seedlings, at a cost of Rs. 383. Blanks were filled up in 50 acres, the cost being Rs. 235. Nurseries were established at other places at a cost of Rs. 32, while four acres were prepared at Dholkhand for planting bamboos and Chír at a cost of Rs. 19. The bamboos planted were the indigenous species (*Dendrocalamus strictus*).

73. In Jaunsár the cost of planting was Rs. 5,174 during the year, which, as in last year, included the preparation and sowing or planting where plants were available, clearing and re-sowing.

The following were the chief works undertaken:—

74. *Deoban Range.*—At Kanjaiba 45 acres were dug up with seed lines, and sown with Rai (*Abies Smithiana*) and Morinda (*Abies Webbiana*) during May 1892, as directed

in the revised working plan. The seed germinated well, but many plants succumbed during the winter. Two thousand six hundred and fifty-six ordinary Deodar plants were planted out in the lower part of compartment I; also 780 basket plants in April 1893.

At Bodyar 30 acres of sub-compartment *(a)* were sown with Kail, as provided in the revised working plan. A good deal of damage was done by the seed being eaten by wild animals, but this will be rectified by using transplants hereafter. The sowing was only undertaken as a temporary makeshift. About 7,700 deodar transplants, and basket plants, and 350 Cypress were put down. The locality is not a very favourable one, but it may be hoped that success will result.

At Asmári fenced enclosure, six acres were hoed up and sown with Kail and Deodar.

75. *Bawar Range.*—Besides other minor works in compartments 9, 10 and 13 of Mundali forest, 3,635 ordinary deodar plants were planted out in patches and lines during July 1892. Eight hundred and forty-five deodar, and 550 kail basket plants were planted out during May 1892 and 1893, mostly by students of the Forest School, and are flourishing.

76. *Deota Range.*—At Deota 2,310 deodar plants were planted out in patches and lines in the Partil and Temple blocks.

At Bamsú the sowing of 10,250 pits at the Pípal block over an area of 36 acres was completed.

A new nursery was constructed at the Dopta block and another at Bamsú.

77. *Kotigad Range.*—At Lohasú 36 acres were planted up with 860 patches containing three plants each, which completes the work at that block.

78. *Deogarh Range.*—At the Ruil plantation, Raiengarh forests, 6,528 deodar plants were planted out to fill up failures and to form an extension of three acres.

In compartment 1, below the Chachpur bungalow, 5,536 plants were planted out in groups of three and five amongst the kail over an area of three acres.

In Murach forest, 438 patches were prepared in the old burnt part of the Pushra block and planted with 2,190 plants.

79. *Climber cutting.*—The following shows the work done during the year as compared with that of 1891-92:—

	Area.		Cost.	
	1891-92.	1892-93.	1891-92.	1892-93.
	Acres.	Acres.	Rs.	Rs.
Dehra Dún...	3,079	8,385	712	1,127
Saháranpur	4,642	500	500	85
Jaunsár	...	...	...	8
	Sq. miles.	Sq. miles.	Per sq. mile.	
Whole circle ...	12·06	13·86	100·5	94·6

80. In the Dehra Dún Division, the work was done according to the prescriptions of the working plan. The charges for the Ganges working circle where climbers are particularly troublesome were again heavy, so were also those of the Tirsal working circle, they being lowest in the Jumna working circle amounting to one anna per acre. In Saháranpur besides the 500 acres in Budhaban, compartments one and two of Lalwála as well as 1,243 acres of Lakarkot block were cut over a second time.

81. In the Jaunsár Division, the coppiced portion of the Háripur block of the Kalsi forest was gone over again.

(3) *Early Thinnings.*

82. As described last year 569 bamboo clumps in the Johra block were thinned out at a cost of Rs. 225, but the work was not well done. Similar operations were carried out in the Mohand, Bam, and Ránípur blocks of the Saháranpur Division at a total cost of Rs. 416. The work was best done at Mohand at Ránípur. In Bam and

Ránípur the clumps were much more conjested, and work was more difficult than in Mohand where the best bamboos are found.

(4) *Other operations for the improvement of the growing stock.*

83. The plantation at Pathri was thinned, as also ten acres of the Rauli block to free young bamboos.

(*a*) *Cutting back badly grown and damaged trees.*

84. In the Dehra Dún Division in compliance with working plan orders 7,216 acres were operated on, the cost being Rs. 3,720. In the Thano forest, considerable areas are occupied by large fig trees to the exclusion of the more valuable species and these were felled in compartments 1—5 at a cost of Rs. 617, the high cost being due to the enormous size of the trees felled, and to the difficulty of getting labour to fell them. The Conservator has every confidence that the results will be very beneficial and that the Divisional Officer will be able to reduce the cost of the work for the future.

(*b*) *Ringing of inferior species.*

85. In the Dehra Dún Division, 1,850 acres were done at a cost of Rs. 417; 96,570 trees being ringed. It has been determind to try the experiment of doing the work at the same time as the cutting back operations, and not at the time of working for improvement fellings.

In the Jaunsár Division, the following work was done :—

						Acres.
Bawar Range Tutwa	...	...	..	...	.	130
Kotigadh Range Ghari	..	...	...	...	...	20
Deoban „ Kopto	...	...	...	...	...	82
				Total	...	232

besides 280 acres gone over a second time in Kalsi, Kathian and Thonwára forest.

5.—*Experiments.*

86. In the Dehra Dún Division, sample plots were selected and marked off in each working circle for determining the growth of Sál. The first measurements were taken in December 1892. The plots were all properly thinned, and improvement fellings made similar to those ordinarily made in other forests of the Division.

In the Saháranpur Division, a few maunds of lac were collected from dhak (*Butea frondosa*) trees near Ránípur and Dholkhand; it appears to be of fair quality. Arrangements were made to cultivate it on a small scale at Ránípur, but the crop failed owing to the exceptionally wet summer of 1893. The seed lac produced in 1892 was valued in Calcutta at Rs. 30 per maund for the best quality. The experiment will be continued at it seems an important one.

87. At the Forest garden, Chakrata, all the fruit trees were carefully manured and pruned. One hundred new grafts were obtained from Ranikhet and planted out during March. There was a fair crop of fruits which sold for Rs. 206.

During the year 2,079 fruit and fresh trees were distributed, and there were 6,600 such trees in the nursery bed. Amongst the exotic trees tried, greatest success has been obtained with *Cryptomeria japonica* which promises to do well at Chakrata. The Khasia Pine (*Pinus Khasya*) also does well. All the species of *Eucalyptus* tried have been an almost complete failure. Even in the Dún they are by no means a success, the most flourishing being *E. citriodora*.

(*d*).—*Exploitation of Major forest produce.*

(1).— Clear or Regeneration fellings.

88. In this circle we have no fellings that come under this head, though in practice both the fellings of deodar in the Deota forests, and those of chir in the forests of the Tons valley come under the head of "first fellings" leading to an advance growth

before the full mature crop is removed. When the working plans are revised, it may be hoped that this aspect of them will be more prominently brought forward and provided for.

(2)—Selection Fellings.

89. In the Dehra Dún Division, such fellings were limited only to the few trees required for departmental purposes.

90. In the Saháranpur Division 108 sál, 242 sain and 13 kukat trees were sold to contractors from the Mohand and Khajnawar blocks, and 521 chir trees from the Mohand and Shahjahánpur blocks were sawn up. This is not much, but a market for a new article cannot always be secured at once.

91. In the Jaunsár Division, selection fellings were limited to the supply of timber to the Military Works Department, of most of the Oak and Fir fuel required for the troops at Chakrata, and of sleepers to the Rájputana Malwa and North-Western Railways; also for the Departmental sale of Chir Karis. Standing deodar trees from the Tehri-Garhwál leased forests, and standing chir trees under the Chir forests working plan were also sold in selection fellings as were also 200 kail trees in Bawar range.

(3)—Improvement Fellings.

92. These are the chief fellings in the Dehra Dún Division and have been carried out in accordance with the working plan. The following table also gives the compartments in which trees have been marked for next year's fellings as well as the work of the year.

Working Circle.	Number of compartments.	Area in Acres.		Areas marked for felling next year.	
		Begun.	Finished.	Compartment.	Area.
Jumna	4 & 5	1,200	1,200	6	1,200
Malhan	7 & 8	800	800	9	800
Ramgarh	9 & 10	500	500	11	500
Nagsidh	4 & 5	500	500	6	500
Thano	6 & 7	200	200	8	200
Tirsal	4 & 5	500	500	6	500
Ganges	4 & 5	1,000	1,000	6	1,000
Total ...	...	4,700	4,700	...	4,700

93. In the Saháranpur Division, improvement fellings were made in Dholkhand block during 1891-92, and the produce was sold. In the year under review, the work was carried on in the Andheri block.

(4)—Coppice Fellings.

94. In Dehra Dún Division, compartments 22 and 24 of the Lachiwala coppice containing about 33 acres were cut in January and February, and the produce stacked on the lines. The area was protected against cattle by a barbed wire fence, 30 trees were left as standards. The out-turn of compartments 1 and 5 coppiced last year was 48,147 cubic feet of firewood and 357 cubic feet of timber, and the produce realized Rs. 216 *net*. The produce of compartments 22 and 24 will be sold in the current year.

95. Compartments 1 and 2 of the Suswa coppice area, 127 acres, were cut over and the fuel sent to the Roorkee workshops; 34 trees were left as standards. A third of the area had, however, previously been coppiced on the strip system, so that 85 acres were actually done during the year. The results cannot be fully reported till next year, but the estimated yield is 87,434 cubic feet of firewood, and 632 cubic feet of timber.

96. In Saháranpur Division, compartment 5, Mohand, and compartment 10, Tira, coppice areas 15 and 80 acres respectively, were sold to contractors for Rs. 633 and

Rs. 380, the coppicing was done by the contractors, and was well done. Compartment 5 of Ranipur coppice was worked departmentally, as no suitable offers were received. The cost was Rs. 655, while the value of the out-turn was Rs. 1,090, leaving a profit of Rs. 435.

97. In the Jaunsár Division, the following works were done:—

Kalsi coppice Working Circle.—Nine acres of compartment 6 and 28 acres of compartment 7 were coppiced, 294 standards, principally sal and sain, being left. The out-turn was 29,710 stacked cubic feet of firewood and 1,822 stacked superficial cubic feet of charcoal, as also 266 ballis and tors measuring 219 cubic feet (solid), 20,020 cubic feet were carted to Chakrata and 2,974 cubic feet were sold to the Executive Engineer, Military Works, for lime burning.

Korwa coppice Ban Oak Working Circle.—Compartment 14 of this coppice area 4 acres were felled, 100 standards being left. The out-turn was 9,397 superficial cubic feet of 1st class oak fuel, 3,000 cubic feet of kukat fuel and about 8,000 cubic feet of charcoal. The oak fuel was supplied to the Commissariat and the kukat to the Brewery.

Gidikhad or Kharshu coppice Working Circle.—Compartment 3 of the Gidikhad, Hajawa block, was coppiced, 35 standards being left. The out-turn was 6,000 superficial cubic feet of oak and 340 superficial cubic feet of fir firewood. The refuse logs which have not yet been burnt into charcoal are estimated to yield about 1,000 cubic feet.

98. *Bamboo Exploitation.*—In accordance with the scheme sanctioned in Government Order No. 420F, dated 23rd May 1892, the Johra, Danda, and Partitnagar blocks were worked departmentally, the Kulhal, Bahera and Bulawala blocks were sold to purchasers and the Sukrau basin of the Kharkhari block was opened to basket makers of Hardwar. The results of the departmental working were the extraction of 7,493 scores and their sale for Rs. 1,949.

(5).—Unregulated fellings.

99. There were very few instances of this class of fellings, for nearly all the Dehra Dún and Jaunsár forests are under working plans, but some trees and poles were sold to villagers in Saháranpur; and dry poles were extracted in Dehra Dún.

(e).—Extraction and transport of major forest produce by land and water.

100. *By Land.*—In the Dehra Dún Division, an agreement has been arrived at with the Dehra Dún Tea Company for the use of the Dehra-Karwapani road which passes through their estate. The remainder of the road will be taken up under the Land Acquisition Act. Land was also acquired for a chauki, camping ground, and depôt at Barwala and a road to the Saháranpur-Chakrata road with a view to connect the Ambari forest with that road. The new Karwapani-Jumna road will facilitate export from the Western Siwaliks, the new Algoha road opens out the Lachiwala coppice working circle, and the Suswa road the Suswa coppice working circle.

101. In the Jaunsár Division, the Thadiar sledge road worked well during the year, and the total number of pieces sledged amounted to 119,224. In order to enable the sledging of broad gauge sleepers, the main bridges were strengthened, the total expenditure on repairs was Rs. 708. A careful account and estimate of the financial results of the sledge road has been made to the end of December 1893, when it will be no longer required. This shows that the total number of sleepers and scantlings that will have been carried by the sledge road is 390,536. The cost of carriage of the same by coolie labour would have amounted to Rs. 43,969, whereas the cost by means of the sledge road, including original cost of the road and repairs and improvements and cost of sledging, is Rs. 14,908, the net profits being Rs. 29,061. Were it not for the sledge road it would have been impossible to carry all the sleepers last year, as labour is usually scarce and it was especially so in 1892 when cholera and famine prevailed.

102. *By Water.*—A memorandum giving the regulations for the working of the timber traffic on the Ganges river, similar with certain modifications to that published

for the Jumna and Tons has been drawn up by the Divisional Forest Officer, Dehra Dún, and is under consideration.

103. In the Jaunsár Division, 32,440 broad gauge sleepers, 54,300 metre gauge sleepers, and 1,000 karis were launched from the Thadiar depôt, and were floated to Dakhpathar, which they reached in the beginning of February, and were thence rafted to Delhi, but much delay was caused by the Western Jumna Canal being closed at an inconvenient time.

The number of sleepers and karis lost in transit amounted to 862 or about 1 per cent. of the total number launched, which may be said to be fair considering the risks attending the floating in the Tons, where the timber is mixed up with that of timber merchants.

104. *Jumna River Work.*—The boom was erected at the usual site at Dakhpathar in November and worked well till April 1893, when on account of the rise of the river it had to be removed and could not again be put up before the rains. The total number of pieces caught at the boom amounted to Rs. 4,02,467.

The plan of bringing down all Government and merchant's timber by means of Government gangs of mullahs worked well and facilitated the working of the boom.

Two short lengths of tramway aggregating 980 feet as in last year, were laid at Dakhpathar and worked well.

105. The following statement shows the timber trade of the Jumna and Tons during 1892-93 :—

Description.	Government Departmental timber.	Government timber by purchasers.	Timber from private forests.	Total.
	Number of pieces	Number of pieces	Number of pieces	Number of pieces.
Deodar Sleepers	87.735	115,482	124,079	327,295
Chir Scantlings	188	153,410	121,479	278,077
Sal, &c. „	124	2,428	109,140	111,692
Total ... { 1892-93 ...	88,047	271,320	357,698	717 065
Total ... { 1891-92 ...	103,112	206,826	884,025	1,193,963

The above shows a considerable decrease in the timber trade which is said to be due to the fact that the market is at present glutted with metre gauge sleepers, and to the general depression of the trade.

The Jumna river dues amounted to Rs. 6,772 against 12,406 in the previous year, due to the reduction in the rates as also to the general depression of the timber trade.

106. The River rules worked well, and no serious breaches took place. The flood of August 15th was the highest on record. It rose to one foot above the verandah of the forest chauki. A good deal of merchant's timber which was not stacked on safe sites went adrift along the Tons and Jumna.

(f).—Exploitation of minor forest produce.

(1).—Extraction of fodder.

107. In the Dehra Dún Division, 2,966 loads of fodder grass were removed as compared with 2,934 in 1891-92. This includes 296 cart-loads of fodder for the Viceroy's Body Guard.

108. In the Saháranpur Division, the only fodder that is cut is for Dâk ponies and cattle in the Mohand block and by Gujars for their cattle. There was a good deal of

friction between the Gujars and the lessees of minor produce with regard to the charge on head-loads of bhabar grass. It is hoped that under the new grazing rules this can be arranged satsifactorily.

109. In the Jaunsár Division there is hardly any revenue from this source, there being an ample supply in the zamindári forests, whilst the wants of the Chakrata cantonment are met from the cantonment forests.

(2.)—Grazing.

110. Form No. 55 gives the grazing statistics of the year.

111. In the Dehra Dún Division the actual head of cattle grazing in the open forests is as follows:—

Description.	Acres per head of cattle.		Head of cattle.		Remarks.
	1891-92.	1892-93.	1891-92.	1892-93.	
Village cattle	4·15	3·42	17,863	17,571	The return is for 15 months, hence the larger number of other cattle.
Other cattle			16,171	23,624	

112. The Divisional Officer of Saháranpur reports that the open forests are very much overgrazed especially in the Western Range west of Sháhjahánpur and in the Maiapur, Ránípur, Rauli and Chirak blocks, and that besides the privileged villages, numerous other villages graze their cattle. There are also a large number of outsiders' cattle in addition. He suggests that the most practicable way to bring down the desirable limit would be to raise the fees on outsiders' cattle. These matters will be fully considered after the new rules come in.

113. In the Jaunsár Division, the value of grass removed through the agency of free grantees' cattle has been increased owing to a recalculation of the produce removed.

(3.)—Miscellaneous produce.

114. In the Dehra Dún Division there is not much sale of minor produce except "Semla" the gum of *Bauhinia retusa*. Now that the important portions of the Malkot "Semla" forests have been reserved, steps will be taken to extract the gum from these trees in the Division on a regular rotation. They are found in the Jumna and Timli forests besides Malkot.

115. In the Saháranpur Division, the right to cut bamboos and to collect minor produce was leased, certain blocks being reserved for departmental works in the future. The contractors have left the bamboo clumps in a very denuded state, due to their overcutting and leaving numerous stumps by not cutting at or close to the ground. The rules will be enforced in the future, though it will serve to decrease revenue from this source. The southern half of the Maiapur block was worked on passes, for the convenience of the basket makers of Jawálapur.

About three maunds of lac were collected departmentally as an experiment of dhák trees (*Butea frondosa*).

Bhabar grass (*Ischæmum angustifolium*) was exported by permit-holders as usual and the amount taken out may be estimated at 40,000 maunds.

Enquiries are being made regarding the sale of gums, especially of Kino gum the produce of *Butea frondosa*.

116. In the Jaunsár Division, increased work was done on the resin industry. The usual localities were worked, the trees operated upon being, old trees tapped 3,000, and new trees 1,053, total 4,053; against 4,700 trees operated on during the previous year. The outturn of crude resin was 868½ maunds as compared with 256 maunds in the

previous year. The cost of collection amounted to about Re. 1-8-0 per maund, as against Rs. 2-8-0 in previous year. This is due to the local men being now more accustomed to the work. Five hundred and eighty-five maunds were sent to Dehra and were distilled during the year, the out-turn of resin being 375 maunds and of turpentine, 75 maunds or 694 gallons. All the resin found ready sale with the Meerut Soap Company, and though endeavours were made the turpentine could not be sold. However, arrangements have now been made with the North-Western Railway for the sale of all the turpentine in stock and the balance of the yearly out-turn after the local sales. Now that we have every prospect of a safe and sure market for all resin and turpentine produced, it is for consideration whether the work should not be extended. The matter will, however, be soon reported on specially by the Conservator.

117. *Chir, tar and pitch.*—The demand for these articles has not yet improved, so none were manufactured during the year. The Conservator is, however, sanguine that by degrees the Jaunsár pitch when once known will find a profitable market to be useful to the country.

Deodar oil.—Enquiries have been made for this product and it is quite possible that a demand may soon arise. Efforts were made by the Officiating Reporter on Economic Products to the Government of India to introduce it in the Calcutta market, but the result is not yet known.

118. *Manufacture of matches.*—The subject of woods for the manufacture of matches and match-boxes has been under discussion during the year, as for some years past. The Conservator thinks that the firs of Jaunsár (*Abies Webbiana* and *Smithiana*) are likely to prove suitable, and as there is a very large possible supply, the industry may, it is to be hoped, soon be well started in this part of India.

CHAPTER III.

Gross yield and out-turn of forest produce.

Departmental operations.

119. Forms Nos. 57 and 58, show the out-turn of major and minor produce and the results of departmental working.

120. In the Dehra Dún Division, departmental works were started in coupe No. 6 Thano forest in 1891-92, and were completed during the year, the results being:—

		Cubic feet.
Sawn timber chiefly Sál	...	6,327
Round timber	...	3,650
Firewood	...	1,900
Charcoal	Mds.	1,397

The above sold for Rs. 4,089, the expenditure was Rs 2,596, and the net surplus Rs. 1,493. A large quantity of firewood about 1,000 cart-loads remains in the compartment unsold owing to the lack of demand.

Works were commenced in compartment 7, and will be finished next year when the results will be reported.

Lachiwála coppice.

121. As already explained in paragraph 94 the out-turn of compartments 1 and 5 coppiced last year was, firewood 48,147 cubic feet, and timber 357 cubic feet. The revenue realized was Rs. 720, and the expenditure Rs. 504, yielding a surplus of Rs. 216. Compartments 22 and 24 were coppiced this year, but the fuel has not all been sold.

Suswa copice.

Compartments 1 and 2 containing 127 acres, 42 acres of which were previously coppiced on the strip system were worked; nearly the whole of the fuel has been sent to the Roorkee Workshops. The receipts amounted to Rs. 2,317, and the expenditure during the year Rs. 1,530. The estimated yield of firewood is 87,434 cubic feet, and of timber 632 cubic feet.

Bamboos.

122. The out-turn from the Johra, Danda, and Partitnagar blocks was 7,493 scores, which sold for Rs. 1,949 including Rs. 8 value of bamboos used departmentally.

123. In the Saháranpur Division, departmental operations were undertaken in the Mohand and Sháhjahánpur blocks, 521 chir trees were sawn into 6,167 karis which were sold for Rs. 2,414. The cost was Rs. 2,044 and the net profit Rs. 370. In the Andheri block 5,280 trees were cut and coppiced at a cost of Rs. 127, and were sold for Rs. 500 as they lay.

Bamboos from the Mohand, Bam and Ránípur blocks were worked departmentally. The work in the Mohand block was scarcely a financial success, whilst a good profit was realized from the other two blocks. Compartment 5 of the Ránípur coppice was worked departmentally as no proper price for it was offered at the auction sales.

124. In the Jaunsár Division the following works were done :—

Deoban Working Plan.

Chakrata fuel supply.

The total amount of fuel at Khopti, Siari, Kanjatra, Gidikhud and elsewhere removed under the working plan prescriptions was 123,412 cubic feet. The amount carried to depôt was 157,946 cubic feet, including a portion of the balance left over from previous year. Besides 34,020 cubic feet were cut at Kalsi, of which 30,650 cubic feet were carried to Chakrata. This work was much interrupted by the heavy snowfall.

Chakrata timber supply.

Deodar and Rai timber required for the Military Works and Chakrata depôt was obtained from the Karamba and Siari block and amounted to 7,951 pieces, aggregating 6,592 cubic feet; which was much less than during the former year, when the amount was 11,048 pieces aggregating 9,760 cubic feet.

Mundali Working Plan.

125. In the Mundali forest the dead timber at the Lakua and Tutwa blocks was sawn. Four thousand six hundred and seventy-two metre gauge sleepers were only sawn, the work being stopped by the prevalence of cholera, heavy rains, &c. Of these 2,000 were carried to the depôt. Twenty-six thousand sleepers were launched about the end of August, but owing to the heavy flood on September 5th, 6,500 went adrift of which nearly all have since been recovered. The sawing of the remaining dry timber will be completed during 1893-94, when the work will close.

Tehri-Garhwâl Forests Working Plan.

126. In Partil and Dopta blocks, Deota forest, 1,727 green and 266 dry deodar trees were felled, and were sawn up into 34,724 broad gauge, 49,221 metre gauge sleepers and 4,368 karis. Besides these 186 chir trees in the Thadiar and Khunigadh blocks were sawn up into 8,347 karis. The out-turn was 16 broad gauge or 23 metre gauge sleepers and two karis per tree, the chir trees at Thadiar yielding about 22 and those at Khunigad about 45 karis. Thirty-two thousand eight hundred and sixty-one broad gauge and 53,425 metre gauge sleepers and 12,368 karis were carried to Chabbai depôt and thence to Thadiar. Dry standing and dead fallen timber from the Nornu and Dedragadh forests were sold, as also standing green deodar trees from Gokal at the auction sales.

Chír Forest Working Plan.

127. One thousand nine hundred and fifty-one chir trees were sold from various blocks, and realized from Rs. 4-4-0 to Rs. 6 per tree. Two hundred Kail trees were sawn up into 3,532 karis at the Panchkoti forest, and were being carried to the bank of the Tons.

Deogarh Range Work.

128. The dry standing and dead fallen timber from the Rhonta Forest, Dadi State, was sold at auction, the royalty on sleepers to be exported being fixed at Re. 0-7-0 to Re. 0-7-6 for broad gauge, and Re. 0-3-0 to Re. 0-4-0 for metre gauge sleepers. The contractor after sawing 5,000 sleepers failed, but as the delay was due to causes beyond his control an extension of the time for the removal of the timber was given to him.

129. Forty-nine thousand nine hundred and twenty-one metre gauge sleepers were sold during the year to the Rájputana-Malwa Railway under the new contract, and 31,400 broad gauge sleepers to the North-Western Railway, the prices paid being Re. 1-8-0 and Rs. 2-12-0 respectively.

Removal of Produce by Purchasers.

Improvement fellings in the Dehra Dún Division.

130. The following table shows the areas gone over for "Improvement felling" in Dehra Dún, and the number of trees marked per acre in the different working circles during the past two years :—

Working circle.	Area marked.	Sál and Sáin marked per acre.						Total number of trees including fuel trees marked per acre.	
		1890 91.			1891-92.				
		1½ feet to 4½ feet girth.	Over 4½ feet girth.	Total.	1½ feet to 4½ feet girth.	Over 4½ feet girth.	Total.	1890-91.	1891-92.
	Acres.								
Jumna ...	1,200	6·1	1 0	7·1	8·7	1·1	9 8	13·8	27·0
Malhan .	800	4·2	·5	4 7	3 5	·6	4 1	20 0	11 1
Ramgarh ...	500	2·8	·1	2 9	2 1	..	2·1	28·8	14 5
Nagsidh ...	500	6 5	·7	7 2	4 0	·3	4 3	17 0	32 7
Thano	200	7·8	·7	8 5	9 3	·6	9 9	39 0	28 2
Tirsal	500	2·5	·8	3·3	4 3	·9	5 2	8 3	10 5
Parduni ...	1,000	2 5	·5	3·0	2·0	·3	2·3	16·6	11·2
Total and average,	4,700	4·4	·6	5·0	4·7	·6	5·3	17 9	18·1

131. The prices realized at the auction sale of the coupes prescribed for the year compare as follows with those of the previous year :—

Working circle.	1891-92	1892-93.	Remarks.
	Rs.	Rs.	
Jumna	7,100	12,500	
Malhan	7,900	6,500	
Ramgarh	3,250	1,200	
Nagsidh	7,350	4,100	
Thano	Not sold.	Not sold.	
Tirsal	3,000	5,000	
Parduni	4,025	3,900	
Total ...	32,625	33,200	

132. Nine hundred and ninety-two thousand two hundred and thirty bamboos were removed as compared with 194,441 in 1891-92, the sum realized being Rs. 6,056 instead of Rs. 3,317. But it should be remembered that the present year shows the results of 15 months in which two working seasons are included, most of the export taking place between April and June. Minor produce on the other hand showed a falling off chiefly on account of less receipts on limestone and thatching grass.

133. In the Saháranpur Division, with the exception of compartment 5, Mohand, and No. 1, Tira, standing trees sold to purchasers, and some posts, &c., for domestic requirements, all produce removed by purchasers is minor produce and dry fallen fuel. Bhabar grass forms an important item in the former and the Divisional Officer reports that more footpaths to open the hill blocks where it is found, and to facilitate export would be much appreciated by the purchasers and tend to increase the revenue. The Conservator shares his opinions and arrangements will be made.

134. In the Jaunsár Division, the only produce removed by purchasers besides timber was from the Kalsi forest, and some ringal from the Deoban forests. As usual the former was given out on lease.

135. *Free Grants.*—The only special free grant made from the Dehra Dún Division, consisted of 7,260 cubic feet of firewood to the MacLaren Leper Asylum at Dehra. Certain villagers of Malkot have been allowed to graze free a certain number of cattle, the dues whereof at ordinary rates amount to Rs. 550. None were made from the Saháranpur Division.

136. In the Jaunsár Division, owing to the scarcity of food and prevalence of cholera the free grantees removed very few of their free grant trees and other timber, so that out of 153 green trees and 5,809 dry pieces granted to them they only took 14 trees and 1,180 pieces. Certain khats still adhere to the use of the axe, while others have taken to the use of the saw to convert their free grant trees into scantlings. The Divisional Officer reports that there is a great scarcity of dry timber in all the free grant blocks and some arrangement to give a certain amount of branchy trees will soon become necessary.

There will probably be no difficulty in this, only the use of the saw for cutting up might now very properly be insisted on from all.

137. *Produce removed by right-holders.*—There are no right-holders in the forests of the Dehra Dún and Saháranpur Divisions, but privileged villagers are allowed to remove head-loads of firewood estimated at 352,160 cubic feet in the former and 251,466 cubic feet in the latter, besides grazing 6,714 and 3,887 head of cattle respectively, at privileged rates.

138. *Summary of produce removed from the forests.*—The following statement shows the produce removed under main heads from the forest as compared with that of the previous year :—

Description of produce.	1891-92.		1892-93.	
	Quantity.	Value.	Quantity.	Value.
	C. ft.	Rs.	C. ft.	Rs.
Timber	1,021,998	4,22,956	1,016,650	3,05,063
Firewood	2,323,542	1,25,539	2,520,154	1,19,648
Bamboos (scores)	68,340	8,342	102,402	13,651
Minor produce	...	19,914	...	22,371
Grazing dues and fodder grass	...	26,389	...	31,366
Amount of free grazing	...	8,586	...	12,780
Total ...	...	6,11,726	...	5,04,889

The out-turn of timber shows a falling off of 5,348 cubic feet from the previous year. It is accounted for mainly by the less quantity of timber removed by free grantees in Jaunsár, 74,312 ; while departmental timber works show an increase of 23,105 cubic feet, mainly in the Dehra Dún and Saháranpur Divisions, and sales to purchasers of 45,859 cubic feet chiefly in the Dehra Dún and Jaunsár Divisions. Under firewood the out-turn of the year shows an increase of 196,702 cubic feet over that of the previous year. The main increase occurs under departmental works chiefly in the Dehra Dún Division, due to the working of the Lachiwála and Suswa coppices and in the Jaunsár Division, while removal by purchasers show a falling off mainly in

the Dehra Dún Division. Bamboos show an increase chiefly in the Dehra Dún and Jaunsár Divisions, due to the removals of nearly two seasons having been included. The increase under minor produce and grazing is accounted for by the present forest year extending over 15 instead of 12 months.

Drift operations.

139. During the year the control of drift timber on the Ganges below the Mainpur weir was transferred over to the Saháranpur Division. The right of collection had been previously sold to a contractor for Rs. 1,000, of which Rs. 500 were credited to the Saháranpur Division. The receipts in the Dehra Dún Division, amounted to Rs. 3,248, and the expenditure Rs. 1,617 leaving a net profit of Rs. 1,581. The work on the Jumna river was conducted by the Jaunsár Division, and 3,470 cubic feet of timber and 71,304 of firewood were collected and sold locally. The total amount realized by the sale was Rs. 3,723, while the expenditure amounted to Rs. 1,273, resulting in a surplus of Rs. 2,450. The Divisional Officer reports that the market has greatly improved during the last two or three years, and is said to be due to wood from the forests along the banks of the Jumna being now scarce.

CHAPTER IV.

Financial Results.

140. The following table shows the results (1) average of 15 years (2) of the four previous years; and (3) of the year under review—

	Average of 15 years.	1888-89.	1889-90.	1890-91.	1891-92.	1892-93.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Receipts	3,22,212	3,90,315	4,32,660	3,48,528	4,39,272	4,38,801
Expenditure	2,63,955	2,67,470	2,71,104	2,66,613	2,77,717	3,54,890
Suplus ...	58,257	1,22,845	1,61,556	81,915	1,61,555	83,911
Percentage of expenditure on receipts.	81·92	68·52	62·66	76·50	63·22	80·87

The receipts, though referring to 15 months instead of 12 as usual, are still lower than those of the previous year which were the highest on record. April, May and June are usually months of low revenue, so that the comparative increase of expenditure in proportion to revenue is easily understood. The expenditure shows an increase of Rs. 77,173 due to the extension of working to 15 months, and this increase occurs generally under departmental timber, &c., operations 31,700, communications and buildings 12,719, important works 14,871 and establishment charges 19,854.

141. The receipts and expenditure of the Divisions compare as follows with the results of the previous years:—

Division.	Receipts.			Expenditure.			Surplus or deficit.		
	Average of ten previous years, 1881-82 to 1890-91.	1891-92.	1892-93 (15 months)	Average of ten previous years, 1881-82 to 1890-91.	1891-92.	1892-93 (15 months.	Average of ten previous years, 1881-82 to 1890-91.	1891-92.	1892-93 (15 months).
	Rs.	Rs.	Rs.	Rs	Rs.	Rs.	Rs.	Rs.	Rs.
Dehra Dún ...	80,951	76,609	80,103	49,588	50,343	69,067	+31,363	+26,266	+11,036
Saháranpur ...	37,974	44,880	42,887	23,003	29,678	37,981	+14,971	+15,202	+4,906
Jaunsár ..	2,04,081	3,17,012	3,15,708	1,62,663	1,70,702	2,14,153	+41,418	+1,46,310	+1,01,555
Direction ...	1,208	771	103	32,092	26,994	33,689	—30,884	—26,223	—33,586
Total ...	3,24,214	4,39,272	4,38,801	2,67,346	2,77,717	3,54,890	+56,868	+1,61,555	+83,911

A full comparision with past years is hardly possible as the present year is one of transition.

112. Form No. 65 shows the financial results of the year divided among the main heads of "Departmental Works," "Other Revenue" and "Formation, improvement, and protection of forests." The return has been drawn up in the same manner as that for the last year. It will be seen that departmental timber works in the Jaunsár Division gave a surplus of Rs. 46,274. In the other Divisions the departmental timber, &c. works are of small importance, and even with low estimates the addition of general and establishment charges causes them to appear unfavourably. The surplus of other revenue amounted Rs. 1,48,737 as against Rs. 1,41,054 in the previous year, due to the extension of the term of the year generally, but to better sales of standing trees in particular in Jaunsár. The charges on the formation, protection and improvement of forests, amount to Rs. 1,06,719 as against Rs. 81,257 in the previous year. This is due to the charges for 15 months having been taken into account, but the increase occurs chiefly in the Dehra Dún and Jaunsár Divisions.

113. In Form No. 63 are shown the revenue received and the outstandings on account of revenue of the year. It will be seen that the outstandings due to the Department have decreased from Rs. 47,645 at the end of 1891-92 to Rs. 33,335 at the end of 1892-93. This is due to better realizations of outstandings on account of sales of standing trees.

114. In Form No. 64 are shown the outstandings and liabilities on account of contractors and disbursers, the amount outstanding at the close of the year being a little more than it was at the beginning, and occurring chiefly in the Dehra Dún Division.

115. The value of the year's transactions stand as follows :—

			Rs.
Cash surplus			83,911
Add—Increase in value of timber and stock (Form No. 60)			3,277
" " " plant (Form No. 60A)			551
" " in outstandings (Form No. 64)			873
Total ...			88,612
Deduct—	Rs.		
Decrease in revenue outstandings	14,310		
Departmental habilities	6		
			14,316
Total net profit of the year ...			74,296

CHAPTER V.

Forest Administration.

116. The charge of the circle was held by Mr. J. S. Gamble, M. A., throughout the year.

The divisional charges were held as follows :—

Dehra Dún Division.

Mr. N. Hearle, Deputy Conservator of Forests, for the whole year, except for the period from 31st July to 28th October 1893, when he was absent on privilege leave and Mr. A. P. Grenfell, Assistant Conservator of Forests, held charge during that period in addition to his own duties.

Sahâranpur Division.

Mr. A. P. Grenfell, Assistant Conservator of Forests, the whole year.

Jaunsár Division.

Mr. E. Mc. A. Moir, Deputy Conservator of Forests, the whole year.

147. The grants for the executive, protective and office establishments were distributed and utilized as follows :—

Division.	Executive and protective establishments.							Office establishments.						
	Permanent sanction per annum	Temporary sanction per annum.	Total sanction as it stood on 30th June 1893.	Actual charges.				Permanent sanction per annum.	Temporary sanction per annum.	Total sanction as it stood on 30th June 1893.	Actual charges.			
				1891-92.		1892-93.					1891-92.		1892 93.	
	Rs.	Rs.	Rs.	No	Rs.	No	Rs.	Rs	Rs	Rs.	No.	Rs.	No	Rs.
Direction ..		..	..		...	...		3,705	1,863	5,568	16	4,232	16	5,575
Dehra Dun ...	11,638	906	12,544	71	9,121	72	11,062	2,304	363	2,667	16	2,574	16	3,213
Saháranpur .	8,400	330	8,730	62	7,147	64	8,621	1,995	218	2,213	10	1,687	11	2,210
Jaunsar ...	10,325	1,830	12,155	48	8,429	56	11,921	2,175	921	3,096	19	2,988	20	3,629
Unallotted ...	477	42	519	...	...	..	...	120	...	120	..	..	..	...
Total .	30,840	3,108	33,948	182	24,697	192	31,604	10,299	3,365	13,664	61	11,481	63	14,627

The executive charges remained unaltered except in the Jaunsár Division, where the Jumna works were formed into a separate charge. The executive charges were 15 instead of 14 as last year. The proposals for the improvement of the position of officers in charge are still under the consideration of Government. A Forest Ranger was transferred to the Oudh Circle, and one Forest Ranger was promoted to the class of Extra-Assistant Conservator and attached to the Jaunsár Division. This necessitated the transfer of two Forest Rangers from the Dehra Dún to the Jaunsár Division, as the charges in the latter are more important, and some of them require English speaking officers. Forest Ranger, Subadár Sharif Ali, who promised to be an excellent Ranger, died during the year; and Forest Ranger, Ram Narayan, has been on sick leave from November 1892. This reduced the number of Forest Rangers allotted to the Dehra Dún Division to two instead of five at the beginning of the year, and five ranges are being held by Foresters at the close of the year.

About the close of the year the Forest Rangers in the three Circles of the Province were brought under one list in which their promotion will be regulated in future. Two of the Foresters of this circle were promoted to the class of Forest Rangers.

148. The 15 Ranges were held as follows at the close of the year :—

	Rs.	Number of Ranges.
Forest Ranger, 2nd grade	120	1
„ „ 4th „	80	1
„ „ 5th „	60	1
„ „ 6th „	50	5

	Rs.	Number of ranges.
Forester, 1st grade	40	1
Do. 2nd „	35	2
Do. 3rd „	30	2
Do 5th „	20	2
Total		15

The sanctioned staff of Forest Rangers is 10 as detailed below :—

	Rs.	Number sanctioned.
Forest Ranger, 2nd grade	120	1
Ditto 4th „	80	1
Ditto 5th „	60	2
Ditto 6th „	50	6
Total		10

149. In reviewing the Annual Report of this Circle for the last year, the Government remarked that no information was given in it as to the number of trained Rangers and Foresters in the Circle. On 30th June 1893 we had a provincial staff of :—

	Upper class certificate	Lower class certificate.	No certificate.
Extra Assistant Conservators	1	...	..
Forest Rangers .	1	7	1
Foresters	...	4	3
Total ...	2	11	4

The Conservator respectfully asks attention to these figures with reference to the remarks at the end of paragraph 11 of the review referred to. The Government are fully aware of the difference in quality between the Upper or English class certificate of the Forest School, and that of the Lower or Hindustani class. The Hindustani class has turned out some excellent practical men, but they are not educated men of the kind that may expect to become Extra-Assistant and Extra-Deputy Conservators, such as we require in this Circle to carry out our rather intricate working plans, and to assist in training students for the provincial staff of the empire :—

150. The protective staff has worked generally well. The Divisional Officers of Dehra Dún and Saháranpur report the difficulty experienced in getting the forest guards to furnish security, but many have done so in the former Division, while others are taking steps for the purpose. In the Saháranpur Division, a system of monthly contribution towards the security deposit has been introduced in cases where the men are unable to furnish the same. In Jaunsár, the rules have been fully carried out.

151. The office staff is well reported on, but is weak in Jaunsár. Proposals for the revision of the clerical staff were drawn up during the year and are now under the consideration of the Government of India. The Conservator is glad again to testify to the good work done in his own office especially by the Head Clerk, Babu Kashishwar Mukerji.

152. *Services of the staff.*—The Conservator is glad to acknowledge the work done in all the three Divisions during the year. He visited them all as usual.

153. The Divisional Officers have not fully reported on the work done by their range staff. In the Saháranpur Division, Pirbhu Lal, Forest Ranger, is specially mentioned for uniform good work, and Pancham Singh, Forest Ranger, for his energetic work on the planting of Rori Island at Hardwár. The Dehra Dún Divisional Officer, mentions Har Swarúp, Forest Ranger, and Akbar Ali, Forester, as having done good work. The Jaunsár Divisional Officer, mentions no one in particular; but the Conservator is glad to record his appreciation of the services of Forest Rangers, Rama Dutt and Madho Ram. Forest Ranger, Muhammad Husain, and Forester, Dharam Singh also did good service.

Extra-Assistant Conservator, Mr. Sadanand Gairola, has, as usual, proved himself a thoroughly capable and intelligent officer.

154. The question of awarding *chevrons* to Foresters and Forest Guards for good and meritorious service received the sanction of Government, and the recommendations of the Divisional Officers will be considered when all are received.

The relations of the forest establishment with the surrounding villagers continue to be satisfactory.

The Conservator here wishes to express his thanks to the Collector of Saháranpur and the Superintendant of Dehra Dún for their kind assistance and support.

155. *Health.*—The health of the staff was fairly good during the year. In the Dehra Dún Division, one Forest Ranger died, and another has been absent on sick leave

from November 1892. In Jaunsár, two forest guards died of fever, and one was killed in a sad accident which occurred during a flood in the Bawar range. He was caught by the flood amongst logs and *debris* and carried away, and the Forest Ranger himself, Madho Parshad, narrowly escaped.

156. The rainfall of the year was greater than usual, the following were the returns from Dehra Dún and Deoban for the 15 months.

Months.	Stations.		Remarks.
	Dehra Dún.	Deoban.	
April 1892	0·15	·66	
May "	1·31	2·00	
June "	4·06	4·24	
July "	26·05	15·14	
August "	35·52	27·10	
September "	9·53	26·93	
October "	...	...	
November "	...	...	
December "	0·75	0·65	
January 1893	4·34	11·30	
February "	6·87	13·25	
March "	1·87	7·57	
April "	·50	1·31	
May "	2·76	2·52	
June "	21·69	11·67	
Total ...	115·40	124·34	

There was a very heavy snow-fall in Jaunsár, about 20 feet having been registered in Deoban during January, February and March. The fall at Chakrata amounted to 15 feet and is said to be the highest on record.

Rainfall is now being carefully registered at all the Range headquarters with effect from 1st January 1893.

J. S. GAMBLE,

Conservator of Forests, School Circle, North-Western Provinces and Oudh.

DEHRA DÚN:
The 16th September 1893.

ANNUAL STATEMENTS.

FOREST DEPARTMENT, SCHOOL CIRCLE,

AREA OF RESERVED, LEASED, PROTECTED

Division.	Range.	Civil district or Territory.	Name of Forest.	Area on 1st April 1892. Acres.	Equivalent in square miles.
			I. Reserved Forests.		
Dehra Dún ...	Jumna ...	Dehra Dún ...	Ambari	4,203	7
			Chandpur	2,251	3
			Jumna	9,130	14
			Timli	19,704	31
	Malhan ...	Ditto	Sherpur	13,922	22
			Chandrabani	7,289	11
			Dhulkot	4,810	8
	Rámgarh ...	Ditto	Rámgarh	10,482	17
			Bulawála	14,965	23
	Lachiwala ...	Ditto	Nágsidh	16,130	26
			Malkot	5,641	9
			Tháno	6,576	10
	Tirsal	Ditto	Tirsál	18,072	28
			Tapoban	489	1
			Birbahadar		
			Rikhikesh depôt	6	...
	Ganges... ...	Ditto	Kansrau	20,402	32
			Motichur	22,073	34
			Total Dehra Dún Division...	1,76,145	276
Sahúranpur ...	Western ...	Sahúranpur	...	81,860	128
	Central ...	Ditto	...	74,961	117
	Eastern ...	Ditto	...	31,743	50
			Total Sahúranpur Division...	1,88,564	295
Jaunsár ...	Deoban ...	Dehra Dún.	Kalsi	4,568	7
			Strips on Jumna and Tons ...	422	1
			Singori, Kua, Korwa, Kotha, Bandla and Raura.	787	1
			Lokandi	6,248	10
			Deoban	6,580	10
			Ekra	5,313	8
			Karamba	11,842	19
			Konain	4,654	7
	Bawar	Ditto	Riknar	6,450	10
			Dharagádh	13,540	21
			Dharmigádh	9,942	15
	Deogarh ...	Ditto	Bastil	3,085	5
			Deogarh	10,776	17
			Khunigádh	11,974	19
			Total, Jaunsár Division ...	96,181	150
			GRAND TOTAL OF RESERVED FORESTS.	4,60,890	721
			II.—Leased Forests.		
	Deogarh ...	Panjáb Hill States ...	Raiengarh	5,425	9
			Dadi including Ori ...	1,630	2
	Deota	Tehri Garhwál	Deota	4,937	8
			Bamsu	2,323	4
			Suras	1,014	2
			Datmir	2,560	4
	Kotigadh ...	Tehri Garhwál ...	Naintwar	3,000	5
			Sahira		
			Noránu	22,000	34
			Chansil		
			Lambatách	2,883	4
			Kotigádh	3,968	6
			Total of Leased Forests ...	49,740	78

[Form No. 46.

N.-W. PROVINCES AND OUDH.

AND UNCLASSED STATE FORESTS, 1892-93.

Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1893.		No. and date of Notification of addition or transfer.	Remarks.
Acres.	Acres.	Acres.	Equivalent in square miles.		
...	...	4,203	7		
...	...	2,251	3		
...	...	9,130	14		
...	...	19,704	31		
...	...	13,922	22		
...	...	7,289	11		
...	...	4,810	8		
...	...	10,482	17		
...	...	14,965	23		
...	...	16,130	26		
...	...	5,641	9		
...	...	6,576	10		
...	...	18,072	28		
...	...	489	1		
...	...	6	...		
...	...	20,402	32		
...	...	22,073	34		
...	...	1,76,145	276		
210	94	81,976	128	94 Acres ceded to Mr. J. E. Powell, *vide* G. O. No. $\frac{609F.}{378A-9}$, dated 13th July 1892.	
...	210	74,751	117		
...	...	31,743	50		
210	304	1,88,470	295		
...	...	4,568	7		
...	...	422	1		
...	...	787	1		
...	...	6,218	10		
...	...	6,580	10		
...	...	5,313	8		
...	...	11,842	19		
...	...	4,654	7		
...	...	6,450	10		
...	...	13,540	21		
...	...	9,942	15		
...	...	3,085	5		
...	...	10,776	17		
...	...	11,974	19		
...	...	96,181	150		
210	304	4,60,796	721		
...	...	5,425	9		
...	...	1,630	2		
...	...	4,937	8		
...	...	2,323	4		
...	...	1,014	2		
...	...	2,560	4		
...	...	3,000	5		
...	...	22,000	34		
...	...	2,883	4		
...	...	3,968	6		
...	...	49,740	78		

FOREST DEPARTMENT, SCHOOL CIRCLE.

AREA OF RESERVED, LEASED, PROTECTED

Division.	Range.	Civil District or Territory.	Name of Forest.	Area on 1st April 1892. Acres.	Equivalent in square miles.
			III.—Protected Forests. *Nil.*		
			IV.—Unclassed State Forests.		
Jaunsár ...	Deoban ...	Dehra Dún ...	Chakrata Cantonment Forests comprising—		
			Lurli	290	...
			Suitoli	188	...
			Forest Garden	48	...
Dehra Dún ...	Ganges and Tirsal ...	Ditto ...	Waste lands available for cultivation.	8,368	13
	Rámgarh and Lachiwala.	Ditto ...	Camping ground at Bulawála Lachiwála and Thano.	33	...
			Forest chaukies at Sahenspur, Raipur and Barkot.	...	...
			Total Unclassed State Forests	8,927	13
			GRAND TOTAL ...	5,19,557	812

Abstract of Changes

Area at commencement of year ... ...
Added during the year ... ...

Excluded during the year ... ...

FOREST DEPARTMENT, SCHOOL CIRCLE,

RECORD OF DEMARCATION AND

Division.		Length of boundaries artificially demarcated during the year.	Length of previously existing boundaries repaired.	Length of previously existing boundaries not repaired.	Total length of artificially marked boundaries at the close of the year.
1.		2	3	4	5
Reserved Forests.		Miles.	Miles.	Miles.	Miles.
Dehra Dún		...	218	...	218
Saháranpur		9	67	46	122
Jaunsar	Main line	7	...	60	67
	Chak line...	21	...	8	29
Total Reserved forest ...	Main line...	16	285	106	394
	Chak line...	21	...	8	29
Leased Forests.					
Jaunsar	Main line...	...	4	41	45
	Chak line...	...	...	...	...
GRAND TOTAL FOR THE CIRCLE...	Main line...	16	289	147	439
	Chak line...	21	...	8	29

N.B.—Boundaries include, besides the outer perimeter, the limits of enclosures of private or other lands.

DEHRA DÚN:
The 15th September 1893.

[Form No. 46.

N.-W. PROVINCES AND OUDH.

AND UNCLASSED STATE FORESTS, 1892-93—(*continued*).

Added during the year.	Excluded or transferred to other heads	Area on 30th June 1893.		No. and date of Notification of addition or transfer.	Remarks.
Acres.	Acres.	Acres.	Equivalent in square miles.		
...	...	290	...		
...	...	188	...		
...	...	48	...		
...	...	8,368	13		
...	...	33	...		
1	...	1	...		
1	...	8,928	13		
211	304	5,19,464	812		

during the year.

	Acres.
... ...	5,19,557
... ...	211
	5,19,768
... ...	304
Total ...	5,19,464

Form No. 48.

N.-W. PROVINCES AND OUDH.

MAINTENANCE OF BOUNDARIES, 1892-93.

Length of boundaries not demarcated at the close of the year.	Length of natural boundaries not requiring artificial marks.	Total length of boundaries at the close of the year.	Expenditure on demarcation during the year.		Remarks.
			On new work.	On repairs.	
6	7	8	9	10	11
Miles.	Miles.	Miles.	Rs.	Rs.	
...	49	267	649	386	
...	7	129	236	*269	*Not including Rs. 1,187 charged in the current year for work done in the previous year (1891-92).
135	167	369	794	248	
5	12	46	640	5	
135	223	765	1,679	903	
5	12	46	640	5	
25	78	148	127	71	
2	...	2	...	...	
160	301	913	1,806	974	
7	12	48	640	5	

within the forests, but not the limits of sub-divisions, such as blocks, compartments, coupes.

J. S. GAMBLE,

Conservator of Forests, School Circle, N.-W. P. and Oudh.

FOREST DEPARTMENT, SCHOOL CIRCLE,

Communications and buildings

Division.	New work undertaken during the year.					
	Buildings.		Roads and Paths.			Total Expenditure on new work.
	Description of building.	Expenditure incurred.	Road or Path and object of the same.	Length of road or path.	Expenditure incurred.	
1	2	3	4	5	6	7
		Rs.		Miles.	Rs.	Rs.
Dehra Dún	Range quarters at Jhajra with stable ...	648	Construction of 10′ 16″ boundary and other roads for inspection and export.	15	1,666	
	Ditto at Barkot with cost of temporary accommodation of Forest Ranger.	753				
	Forest chauki at Barkot	130	Construction of 4′ and 6′ inspection paths, including a length of about nine miles of watershed path for inspection and fire protection.	14	481	
	Ditto at Gularparao ...	159				
	Ranger's kitchen and stable at Karwapani	52				
	Mahout's shed at Karwapani ...	22				
	Total ...	1,764	Total ...	29	2,147	3,911
Saháranpur	Badshahibagh chauki	9				
	Kutcha masonry stable at Sháhjahánpur.	24	Packa masonry bridge near Dankidhar on the Hardwar-Khara road.	...	88	
	Kutcha kitchen at Kusumri ...	268				
	Stable at Ranipur	20	Andheri-Sahidwala export road ...	2	144	
	Chirak chauki (part cost)... ...	14	Contribution to the Dehra Dún Division for the construction of the Siwalik ridge path for inspection and fire protection.	...	100	
	Bugawala ditto (ditto)... ...	34				
	Beribara chauki	493				
	Range quarters at Barkala (part cost)...	459				
	Total ...	1,321	Total ...	2	332	1,653
Jaunsár ...	Re-building the Forest Bungalow at Kon.in.	1,270				
	Stable at Pandawa	124	Fuel carrying paths at Korwa, Khopti, &c.	4	133	
	Shop at Mundali	57	Sleeper carrying and inspection paths ..	16	416	
	Dák chauki at Bhandroli	93				
	Resin hut at Danich	93	Bridle path to Bamsugádh ...	3	198	
	Officer's hut at Bamsú	92	Bamsú sledge road works	2	6,874	
	Ranger's quarters at Bamsú ...	78				
	Out-houses at Bamsú	160				
	Ditto at Manjnie Chauki ...	75				
	Hut for Mailahs at Dakhpathar ...	70		25	7,621	9,733
	Total ...	2,112		...	...	105
Direction ...	Shed for potting plants (part cost) ...	105				
	TOTAL FOR THE CIRCLE ...	5,302		56	10,100	15,402

DEHRA DÚN:

The 18th September 1893.

[Form No. 51.

NORTH-WESTERN PROVINCES AND OUDH.

during the year, 1892-93.

Repairs executed during the year.						
Buildings.		Roads and Paths.			Total expenditure on repairs.	Remarks.
Nature of repairs.	Expenditure incurred.	Nature of repairs.	Length repaired.	Expenditure incurred.		
8	9	10	11	12	13	14
	Rs.		Miles.	Rs.	Rs.	
Repairing doors and white washing Rámpur Mandi bungalow.	14	Clearing of grass and ordinary repairs, and cutting down slopes of 10′—16′ export and other roads.	247	2,589		
Thatching and ceiling the Karwapani Rest-house.	228					
Repairing doors and white-washing Lachiwala Rest-house.	42	Clearing of grass and ordinary repairs to 4′—6′ inspection paths.	65	618		
Thatching and ceiling the Parduni Rest-house.	97					
Thatching and ceiling the Kansrao Rest house.	39					
Repairing chaukies and Rangers' quarters in all Ranges.	1,032					
	1,452		312	3,207	4,659	
Thatching the Divisional office buildings.	80	Repairs of khara, Hardwár road (cutting grass, filling pits, and diverting the road round the steepest slopes including contribution by the District Board, 330.)	51	577		
Thatching the Kasumri bungalow ...	25					
Repairs to the Dholkhand bungalow and thatching out-houses, stables, &c.	69					
Additions to the Beribara bungalow and white-washing the same.	40	Cutting grass, &c., from other roads ...	13	142		
Thatching Pathri bungalow and thatching and reparing out-houses of the same.	275	Ditto from inspection and export paths.	22	70		
Up-keep of forest chaukis, &c. ...	444					
	933		86	789	1,722	
Divisional office bungalow and buildings	146	Metalling lower part of Deoban road ...	2	338		
Clerks quarters and office ..	168	Repairs of Tons-Simla road in the Deoband and Bawar Ranges including contribution by the District Board Rs. 1,291.	22	4,126		
Range quarters at Mundali ...	61					
Godown and other buildings at Deota	206					
Godown and chauki at Dakhpathar ...	297	Repairs of various roads and paths the principal being from Kathian to Koti; Koti to Tiuni, Dogra, Tutwa, Dharmigad road, Rama serai road, Pabar road, Chachpur road, &c.	124	3,124		
General repairs to other buildings and chaukis.	2,948					
	2,926		148	7,588	10,514	
Repairs to Turpentine godown ...	2	...	...	...	2	
	5,313		546	11,584	16,897	

J. S. GAMBLE,

Conservator of Forests, School Circle, N.-W. P. and Oudh.

[Form No. 52.

FOREST DEPARTMENT SCHOOL CIRCLE, N.-W. PROVINCES AND OUDH.

PROSECUTIONS FOR BREACHES OF FOREST RULES DURING 1892-93.

Forest Division and Civil District.		Cases pending from 1891-92.	New cases of the year.					Total cases.	Disposed of during the year.						Cases pending at close of year.
			Injury to forest by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission, or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.		Convictions.		Acquittals.		Total.		
									Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
Dehra Dún	A.	1	1	...	...	1	2	3	2	2	1	5	3	7	...
	B.	...	4	30	9	6	49	49	38	76	11	87	49	163	...
	C.	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Saháranpur	A.	1	...	3	1	2	6	7	4	19	3	4	7	23	...
	B.	...	1	13	11	7	32	32	32	97	...	...	32	97	...
	C.	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Jaunsár (Dehra Dún)	A.	...	1	1	...	...	2	2	2	5	...	...	2	5	...
	B.	...	8	21	17	8	54	54	53	100	1	2	54	102	...
	C.	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	A.	2	2	4	1	3	10	12	8	26	4	9	12	35	...
	B.	...	13	64	37	21	135	135	123	273	12	89	135	362	...
	C.	...	...	...	...	...	...	...	...	...	...	...	...	...	...

N.B.—A means cases taken into Court.
B „ cases disposed of under Section 67 of the Forest Act, VII of 1878.
C „ undetected cases.

DEHRA DÚN:
The 18th September 1893.

J. S. GAMBLE,
Conservator of Forests, School Circle, N.-W. P. and Oudh.

[Form No. 53.

FOREST DEPARTMENT SCHOOL CIRCLE, N.-W. PROVINCES AND OUDH.

AREA OF FOREST TRACTS PROTECTED FROM FIRE DURING THE DRY SEASON 1893,—TO ACCOMPANY REPORT FOR 1892-93.

Division.	Forest Tracts.	Year in which protection commenced.	Area actually protected up to 15th June 1892.	During dry season of 1893.			Cost during the season.	Remarks.
				Area attempted to be protected.	Failures.	Actually protected.		
			Acres.	Acres.	Acres.	Acres.	Rs.	
Dehra Dún ...	**Jumna Range.**							
	Ambari	1887	4,203	4,203	...	4,203	51	
	Chandpur	1887	1,991	2,251	...	2,251	73	
	Jumna	1886	8,156	8,156	...	8,156	41	
	Timli	1884	19,216	19,240	...	19,240	168	
	Total ...	...	33,566	33,850	...	33,850	333	
	Malhan Range.							
	Dholkot	1884	4,662	4,688	...	4,688	98	
	Sherpur	1884	13,828	13,828	...	13,828	75	
	Chandrabani	1878	7,053	7,053	...	7,053	96	
	Total ...	...	25,543	25,569	...	25,569	269	
	Ramgarh Range.							
	Ramgarh	1878	10,215	10,215	...	10,215	80	
	Bulawala	1872	14,434	14,434	...	14,434	230	
	Total ...	...	24,649	24,649	...	24,649	310	
	Lachiwala Range.							
	Nagsidh	1883	13,523	13,523	...	13,523	208	
	Thano	1877	6,544	6,544	...	6,544	107	
	Malkot	1888	5,252	5,641	...	5,641	54	
	Total ...	...	25,319	25,708	...	25,708	369	

FOREST DEPARTMENT, SCHOOL CIRCLE, N.-W. PROVINCES AND OUDH. [Form No. 53.

AREA OF FOREST TRACTS PROTECTED FROM FIRE DURING THE DRY SEASON 1893,—TO ACCOMPANY REPORT FOR 1892-93.—(*contd.*)

Division.	Forest tracts.	Year in which protection commenced.	Area actually protected up to 15th June 1892.	During dry season of 1893.			Cost during the season.	Remarks.
				Area attempted to be protected.	Failures.	Actually protected.		
			Acres.	Acres.	Acres.	Acres.	Rs.	
	Ganges Range.							
Dehra Dún—(*concluded*).	Kansrao	1878-81	14,522	14,600	...	14,600	273	
	Motichúr	1883	18,936	18,960	4	18,956	199	
	Total ...	...	33,458	33,560	4	33,556	472	
	Tirsal Range.							
	Tirsal	1887	13,836	13,836	...	13,836	496	
	Birbhadar	1888	50	50	...	50	12	
	Total ...	...	13,886	13,886	...	13,886	508	
	Total, Dehra Dún Division ...	...	156,421	157,222	4	157,218	2,261	
	Western Range.							
	Khára	1879	9,612	9,612	...	9,612	55	
	Badshahilagh	1885	7,066	7,730	...	7,730	37	
	Chapri	1885	2,765	4,051	...	4,051	22	
	Khaironwála	1885	2,608	5,169	...	5,169	32	
	Barkala	1885	4,703	7,218	...	7,218	22	Half acre burnt.
	Kasumri	1885	2,579	3,754	...	3,754	20	
	Sahensra	1885	6,048	6,643	...	6,643	3	
	Kotri	1885	2,669	3,883	...	3,883	24	
	Kalnwála	1885	5,116	5,840	...	5,840	27	
	Shahjahánpur	1887	9,572	9,572	6	9,566	5	
	Khajnawar	1887	8,392	8,392	...	8,392	39	
	Budhaban	1887	3,771	*3,981	...	3,981	33	* 210 acres transferred from Lálwála block, Central Range.
	Mohand	1884	6,130	6,131	...	6,131	64	
	Total ...	...	71,031	81,976	6	81,970	383	

	Central Range.						
Saháranpur ...	Sukh ...	1884	5,111	5,111	...	5,111	20
	Chillawála ...	1882	7,782	7,782	...	7,782	5
	Gáj ...	1882	3,578	3,578	...	3,578	4
	Andheri ...	1882	5,719	5,719	...	5,719	5
	Dholkhand ...	1880	3,916	3,916	...	3,916	20
	Malowála ...	1880	2,122	2,122	...	2,122	4
	Bám ...	1880	3,013	3,013	...	3,013	21
	Betban ...	1882	6,780½	6,781	...	6,781	51
	Gholna ...	1886	3,746	3,746	...	3,746	21
	Lálwála ...	1884-89-90	709	2,761	...	2,761	46
	Baniawala ...	1883	372	2,762	...	2,762	46
	Lakarkot ...	1879	3,646	3,646	...	3,646	67
	Ganjerban ...	1879	2,833	2,833	...	2,833	105
	Rasulpúr ...	1879	1,987	1,987	848	1,139	10
	Sendhli ...	1883	2,560	2,560	...	2,560	83
	Sakrandah ...	1893	...	500	...	500	47
	Tira ...	1884	1,791	1,791	...	1,791	58
	Total ...	...	55,665½	60,608	848	59,760	613
	Eastern Range.						
	Harnaul ...	1886	2,035	2,035	...	2,035	16
	Chirak ...	1886	3,860	3,860	...	3,860	24
	Rauli ...	1879	3,038	3,038	...	3,038	21
	Ranipur ...	1879	4,884½	4,885	...	4,885	22
	Maiapúr ...	1886	1,361	1,361	...	1,361	39
	Patlri ...	1880	81	81	...	81	26
	Total ...	...	15,259½	15,260	...	15,260	148
	Total Saháranpur Division ...	...	1,41,956	1,57,844	854	1,56,990	1,144
	Deoban Range.						
Jaunsár ...	Kalsi ...	1872	4,532	4,576	...	4,576	...
	Bairat ...						
	Amlawa ...						
	Oak Forests, south of Chakrata ...	...	775	775	...	775	5
	Cantonment blocks and Forest Garden ...	1880	526	526	...	526	9
	Lokandi ...	1869	5,580	6,094	...	6,094	45
	Deoban ...	1872	5,591	5,790	5	5,785	54
	Ekra ...	1872	3,496	3,496	...	3,496	28
	Konain ...	1872	3,803	4,087	...	4,087	31
	Karamba ...	1872	2,050	2,050	...	2,050	21
	Barasti Punaha, Khopti ...	1892-93	*200	2,256	2	2,254	9
	Total ...	...	26,553	29,650	7	29,643	202
	Bawar Range.						
	Riknar ...	1872	5,262½	5,570	...	5,570	73
	Dharagadh ...	1872	6,515	6,715	...	6,715	69
	Dharmigadh ...	1872	3,374	3,374	2	3,372	68
	Bastil ...	1875	1,669	1,669	...	1,669	40
	Khunjawar ...	1884	109	109	12	97	16
	Total ...	...	16,929½	17,437	14	17,423	266

* 200 acres protected at Barasti during 1891-92, were included in the Konain Forest in that year.

[Form No. 53.

FOREST DEPARTMENT SCHOOL CIRCLE, N.-W. PROVINCES AND OUDH.

AREA OF FOREST TRACTS PROTECTED FROM FIRE DURING THE DRY SEASON 1893—TO ACCOMPANY REPORT FOR 1892-93—(*concld.*)

Division.	Forest tracts.	Year in which protection commenced.	Area actually protected up to 15th June 1892.	During dry season of 1893.			Cost during the season.	Remarks.
				Area attempted to be protected.	Failures.	Actually protected		
			Acres.	Acres.	Acres.	Acres.	Rs.	
	Deota Range.							
Jaunsár ...	Khunigadh	1879-84	4,145	4,157	...	4,157	275	
	Molta							
	Chatra							
	Hanol	1879-84	4,937	4,937	...	4,937	148	
	Deota	...	2,323	2,323	...	2,323		
	Bamsú	...	1,234	1,234	...	1,234		
	Suras	1872	2,560	2,560	...	2,560	12	
	Datmir	1885	3,450	3,450	...	3,450	26	
	Nanitwar	1885	9,410	9,410	...	9,410	43	
	Salbra	1885	1,519	1,519	...	1,519		
	Noranu							
	Total ...	...	29,578	29,590	...	29,590	504	
	Deogarh Range.							
	Deogarh	1875-76	5,544½	5,779	...	5,779	126	
	Raiengarh	1880	5,238	5,425	...	5,425	36	
	Dadi	1880	1,728	1,900	125	1,865	32	
	Total ...	...	12,510½	13,194	125	13,069	194	
	Kotigadh Range.							
	Chansil	1885	13,000	13,000	...	13,000	81	
	Kotigadh	1879	3,843	3,843	...	3,843	28	
	Lambatach	1879	2,883	2,883	...	2,883	103	
	Total ...	...	19,726	19,726	...	19,726	212	
	Total Jaunsár Division ...	...	1,05,297	1,09,597	146	1,09,451	1,378	
	GRAND TOTAL FOR THE CIRCLE ...	...	4,03,674	4,24,663	1,004	4,23,659	4,783	

NOTE.—This form is for the dry season, and not for the financial year, and therefore the date up to which expenditure is included must be filled in to suit the circumstances of each circle.

DEHRA DÚN;
The 18th September 1893.

J. S. GAMBLE,
Conservator of Forests, School Circle, N.-W. P. and Oudh.

[Form No 54.

FOREST DEPARTMENT, SCHOOL CIRCLE, N.-W. PROVINCES AND OUDH.

AREA CLOSED AND OPEN TO GRAZING DURING 1892-93.

Division.	Area in square miles.						Remarks.
	Closed to all animals.		Closed to browsers (camels, goats or sheep).		Open to all animals	Total area.	
	Whole year.	Part of year.	Whole year.	Part of year.	Whole year.		
1	2	3	4	5	6	7	8
Reserved Forests.							
Debra Dún	66	33	†148	...	29.	276	†Closed to goats and sheep except 965 privileged animals.
Saharanpur	61	*39	...	...	195	295	*Closed from 1st March to the beginning of the rains.
Jaunsár	40	...	...	...	110	150	
Total	167	72	148	...	334	721	
Leased Forests.							
Jaunsár	26	...	...	...	52	78	
Unclassed Forests.							
Debra Dún	...	...	...	...	13	13	District Waste lands.
Jaunsár	1	...	...	...	...	1	Cantonment Forests near Chakrata.
Total	1	...	...	...	13	14	
GRAND TOTAL	194	72	148	...	399	813	

DEHRA DÚN;
The 18th September 1893.

J. S. GAMBLE,
Conservator of Forests, School Circle, N.-W. Provinces and Oudh.

[Form No. 55.

FOREST DEPARTMENT SCHOOL CIRCLE, N.-W. P. AND OUDH.

RETURN OF GRAZING IN THE STATE FORESTS DURING THE FOREST YEAR 1892-93.

Division.	Grazing on payment. Number of animals. At full rates. Buffaloes.	Cows and Bullocks.	Goats and sheep.	Camels.	Other animals.	Fees received.	At privileged rates. Buffaloes.	Cows and Bullocks.	Goats and Sheep.	Camels.	Other animals.	Fees received. Actual.	Value at full rates.	Grazing free. Number of animals. By right under Settlement. Buffaloes.	Cows and Bullocks.	Goats and Sheep.	Camels.	Other animals.	Value of Fees at full rates.	During pleasure of Government, or otherwise than under Settlement. Buffaloes.	Cows and Bullocks.	Goats and Sheep.	Camels.	Other animals.	Value of fees at full rates.	Total value of Fees at full rates	Grand total of value at full rates.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
						Rs.						Rs.	Rs.						Rs.						Rs.	Rs.	Rs.
Reserved Forests.																											
Dehra Dún ...	4,897	20 192	1,600	2,791	4,998	9,378	494	4,073	64	...	15	636	1,272	...	...	...	...	...	...	169	1,851	50	...	...	550	550	11,200
Saháranpur ...	5,613	34,584	11,680	9,020	9,041	16,617	767	3,010	110	...	...	571	1,142	...	...	...	...	...	...	...	...	...	...	...	...	...	17,759
Jaunsár ...	3,366	1,553	7,675	...	2,253	2,976	...	...	...	...	...	...	...	399	17,331	41,464	...	...	*7,523	...	...	...	...	...	...	...	10,499
Total ...	13,876	56,329	20,955	11,811	16,292	28,971	1,261	7,083	174	...	15	1,207	2,414	399	17,331	41,464	...	...	7,523	169	1,851	50	...	...	550	550	39,458
Leased Forests.																											
Jaunsár ...	281	17	7	...	...	401	...	...	...	...	...	...	...	...	1,000	20,000	...	...	1,500	...	...	...	...	...	...	...	1,901
Total ...	281	17	7	...	...	401	...	...	...	...	...	...	...	...	1,000	20,000	...	...	1,500		...	...	...	...	..	...	1,901
Unclassed Forests. *Nil.*																											
GRAND TOTAL ...	14,157	56 346	20,962	11,811	16 292	29,372	1,261	7,083	174	...	15	1,207	2,414	399	18,331	61,464	...	...	9,023	169	1,851	50	...	...	550	550	41,359

NOTE.—The figures for the Dehra Dún Division Reserved Forests include some grazing in *Unclassed Forests*, which it has been found impossible to separate this year.
The rates vary considerably even for the same class of animals, for instance buffaloes are charged from Rs. 1 8-0 to Re. 0-2-0, hence the large number which is only apparent.

By privilege granted in the village "record-of-rights" at "Revenue" not "Forest" Settlement.

DEHRA DÚN;
The 18th September 1893.

J. S. GAMBLE,
Conservator of Forests, School Circle, N.-W. P. and Oudh.

[Form No. 56.

FOREST DEPARTMENT SCHOOL CIRCLE, N.-W. PROVINCES AND OUDH.

AREA OF PLANTATIONS, 1892-93.

Division.	Name of Plantation.	Area in Acres. On 1st April 1892.	Added during the year.	Excluded during the year.	Area on 30th June 1893.	Receipts. Of the year.	Charges. Of the year.	Total charges up to 30th June 1893.	Remarks.
		Regular Plantations.				Rs.	Rs.	Rs.	
Saháranpur ...	Pathri ...	80¼	...	...	80¼	...	4	1,224	Shisham, Teak, &c.
	Total ...	80¼	...	...	80¼	...	4	1,224	
		Cultural Operations.							
Dehra Dún ...	Phandowala ...	5¾	...	...	5¾	...	...	10,797	Tun, Paper, Mulberry, Bamboo, &c.
	Ramgarh ...	...	23¼	...	23¼	...	922		
	Johra ...	86	...	...	86	...	1,394		Ditto and Nursery at Pardani.
	Lachiwála ...	...	16	...	16	...	1,028		Bamboos.
	Ditto ...	...	¼	...	¼				Chir.
	Total ...	91¾	40	...	131¾	...	3,344	10,797	
Saháranpur ...	Ranipur ..	165	55	...	220	...	618	1,026	
	Andhari	...	...	...	...	...	2	2	
	Mohand	...	...	...	...	...	18	18	
	Kasunri	...	...	...	...	...	1	1	
	Dholkhand	...	...	...	...	...	30	30	
	Budhaban Coppice ...	...	...	...	...	...	3	3	
	Dhaula (Chir) ...	...	...	...	...	...	3	3	
	Total ...	165	55	...	220	...	675	1,083	
Jaunsár ...	Korwa	15	2	...	17	...	119	504	
	Mohna	200	...	...	200	...	334	4,668	
	Matkang	74	...	...	74	...	55	1,034	
	Hajawa	8	...	8	...	...	...	115	
	Thona	4	...	...	4	...	...	733	
	Kanjatra	33	45	...	78	...	307	1,106	
	Koti Kamasar ...	139	...	...	139	...	135	1,799	
	Bodyar	415	30	...	445	...	1,744	7,485	
	Komin	122	...	...	122	...	...	2,480	
	Lurli	75	...	...	75	...	83	1,726	
	Suitoli	22	...	...	22	...	21	564	
	Mundali	41	9	...	50	...	588	1,593	
	Kathian	255	7	...	262	...	113	3,374	
	Panchkoti	11	2	...	13	...	147	279	
	Partil	48	10	...	58	...	254	1,394	
	Jaurasi	15	...	...	15	...	...	401	
	Temple	31	5	...	36	...	23	257	
	Pipal	4	46	...	50	...	183	207	
	Ghoria	13	...	...	13	...	...	178	
	Dopta	100	...	...	100	...	...	983	
	Chakora	34	...	...	34	...	59	425	
	Garasna	2	...	...	2	...	50	160	
	Ola	68	...	...	68	...	86	540	
	Thanwara	6	.	...	6	...	...	82	
	Lohsú	4	36	...	40	...	120	120	
	Murach	16	4	...	20	...	154	710	
	Raiergarh	26	6	...	32	...	455	1,259	
	Majog	...	6	...	6	...	144	114	
		1,781	208	8	1,981	...	5,174	34,320	
	GRAND TOTAL OF CULTURAL OPERATIONS.	2,037¾	303	8	2,332¾	...	9,193	46,200	

DEHRA DÚN;
The 18th September 1893.

J. S. GAMBLE,
Conservator of Forest, School Circle, N.-W. P. and Oudh.

[Form No. 56A.

FOREST DEPARTMENT, SCHOOL CIRCLE, N.-W. PROVINCES AND OUDH.

WORKS OF IMPROVEMENT FOR FOREST YEAR 1892-93.

Division.	Locality.	Area in acres. On 1st April 1892.	Added during the year.	Excluded during the year.	Area on 30th June 1893.	Receipts. Of the year.	Charges. Of the year.	Total charges up to 30th June 1893.	Remarks.
DEHRA DÚN. *Working Circles.*			**Climber Cutting.**			Rs.	Rs.	Rs.	
Jumna ...	Compartment Nos. 1—5	6,000	6 and 7	2,400	...	8,400	...	150	807
Malhan ...	Ditto „ 1—8	6,800	9 and part of 10, 11, 12.	800 600	...	8,200	...	147	1,032
Ramgarh ...	Ditto „ 1—10	7,200	...	1,000	...	8,200	...	112	933
Nagsidh ...	Ditto „ 1—5	2,700	6 and 7	1,000	...	3,700	...	170	594
Thano ...	Ditto „ 1—8	1,850	9	200	...	2,050	...	56	618
Tirsal ...	Ditto „ 1—5 and (6 part of.)	3,484	6 (rest of) & 7	16 500	...	4,000	...	109	768
Ganges ...	Compartment „ 1—5 and (6 part of.)	5,250	6 (rest of) 7 (part of)	750 800	...	6,800	...	322	1,363
Lachiwála Coppice	Compartments ...	...	21—40	319	...	319	...	61	61
	Total ...	33,284	...	8,385	...	41,669	...	1,127	6,176
SAHÁRANPUR.									
Central Range...	Budhabún compartments 1 and 2.	140	...	...	...	140	...	35	63
	Baniawála ditto	...	...	500	...	500	...	50	50
	Lakarkot (8 ditto)	3,640	...	...	...	*3,646	...	...	472
	Ganjarban block Rasúlpur „	1,600	...	...	...	1,600	...	...	61
	Tira, compartment Nos. 1 and 2.	155	...	...	...	155	...	...	24
	Dholkhand block ...	521	...	...	..	521	...	...	45
	Andheri „ ...	475	...	...	...	475	...	...	40
Western Range	Badsháhibagh ..	45	...	...	...	45	...	...	10
	Total ...	6,582	...	500	...	7,082	...	85	768
JAUNSÁR									
Deoban Range	Haripur block, Kalsi forest.	640	...	...	...	640	...	8	65
	Total for the circle ...	40,506	...	8,885	...	49,391	...	1,220	7,009
DEHRA DÚN. *Working Circles*			**Cutting back of injured Sal.**						
Jumna ...	Compartment Nos. 1 & 2	2,400	3	1,200	...	3,600	...	680	1,737
Malhan ...	Ditto „ 1, 2, & 4, part of 3 and 5.	3,631	3 (rest of) 5 (do.) 6	610 120 800	...	5,200	...	422	2,416
Ramgarh ...	Compartment Nos. 1—7	5,535	8	500	...	6,035	...	298	4,311
Nagsidh ...	Ditto „ 1	500	2, 3 (part of)	500 465	...	1,465	...	342	1,086
Thano ...	Ditto „ 1, 2 & part 4.	280	3, 4 rest of, 5	580 190 200	...	1,250	...	647	909
Tirsal ...	Compartment „ 1 - 2	1,500	3	500	...	2,000	...	305	1,276
Ganges ...	Ditto „ 1 and (part) 2.	1,250	2 (rest of) 3 part of	750 765	...	2,765	...	1,026	1,759
	Total ...	15,099	...	7,216	...	22,315	...	3,720	13,494
DEHRA DÚN. *Working Circles.*			**Girdling of inferior species.**						
Jumna ...	Compartment Nos. 1—5	6,000	...	...	...	6,000	...	...	865
Malhan ...	Ditto „ 1—7	6,000	8	800	...	6,800	...	82	978
Ramgarh ...	Ditto „ 1—10	7,200	...	...	...	7,200	...	55	777
Nagsidh ...	Ditto „ 1—4 and 5 (part of.)	2,020	5 (complete)	480	...	2,500	...	138	410
Thano ...	Compartment Nos. 1—6 and 7 (part of.)	1,600	7 do.	50	...	1,650	...	21	315
Tirsal ...	Compartment Nos. 1—5	3,000	...	...	...	3,000	...	...	230
Ganges ...	Ditto „ 1—4 and 5 (part of.)	4,480	5 (complete)	520	...	5,000	...	121	1,008
	Total ...	30,300	...	1,850	...	32,150	...	417	4,589

Remarks: Shown as Lalwala in 1891-92, but transferred to Budhaban, compartments 1 and 2 cut over a second time. *1,283 acres cut over a second time.

Remarks: Coppice portion of the area gone over again in November 1892.

[FORM No. 56A.

FOREST DEPARTMENT, SCHOOL CIRCLE, N.-W. PROVINCES AND OUDH.

WORKS OF IMPROVEMENT FOR THE FOREST YEAR 1892-93.

Division.	Locality.	Area of acres. On 1st April 1892.	Added during the year.	Excluded during the year.	Area on 30th June 1893.	Receipts. Of the year.	Charges. Of the year.	Total charges up to 30th June 1893.	Remarks.
	Girdling of inferior species to encourage Deodar reproduction (before fellings.)								
JAUNSÁR. Kotigadh Range.	Banarpáni ...	140	...	...	...	140			
	Chakora	130	...	...	...	130			
Deota ...	Partil	200	...	...	...	200	...	...	68
	Temple	95	...	...	...	95			
	Kanga	50	...	...	...	50			
	Patangni	70	...	...	...	70			
	Bamsú	466	...	...	...	466	...	...	1,247
	Dikuri	1,482	...	...	...	1,482			
	Suras	1,014	...	...	...	1,014	...	...	227
	Moriru	950	...	...	...	950	...	...	153
	Kangagádh ...	310	...	...	...	310			
Bawar Range ...	Tutwa block, Mundali forest.	620	Compt. 16 and 17.	130	...	750	...	21	285
	Sangared near Koti Bawar	72	...	...	...	72	...	...	42
	Koti, 1st class forest ...	41	...	...	...	41	...	...	10
	Total ...	5,640	...	130	...	5,760	...	21	2,032
	Thinning and girdling inferior species above young Deodar growth (after fellings.)								
JAUNSÁR. Bawar Range ...	Kathian	409	...	...	...	409	...	22	121 100 acres gone over a second time.
Kotigadh Range	Thanwára	510	...	...	...	510	...	...	455
	Chakora	457	...	...	...	457			
	Lohasú	303	...	...	...	303			
	Gurasna	295	...	...	...	295			
	Banárpani	100	...	...	...	100	...	...	23
	Kandar	14	...	...	...	14	...	...	12
	Ghoria	...	...	20	...	20	...	10	10
Deota do. ...	Partil	358	...	...	...	358	...	...	238
	Temple	30	...	...	...	30	...	...	8
Deogarh do. ...	Raiengarh	12	...	...	...	12	...	...	5
	Murach	83	...	...	...	83	...	...	27
	Koti Kanasár ...	54	...	...	...	54	...	...	73
Deoban do. ...	Bodyjár	16	...	...	...	16	...	...	18
	Kopti	8	1, 2 and 4 parts.	82	...	90	...	16	28
	Marauwá	90	...	...	...	90	...	...	43
	Missau	100	...	...	...	100	...	...	97
	Karamba	400	...	...	...	400	...	...	71
	Konain	40	...	...	...	40	...	...	14
	Total ...	3,279	...	102	...	3,381	...	48	1,243

DEHRA DÚN;
The 18th September 1893.

J. S. GAMBLE,
Conservator of Forests, School Circle, N.-W. P. and Oudh.

FOREST DEPARTMENT, SCHOOL

OUTTURN (IN CUBIC FEET, SOLID) OF TIMBER AND FUEL

Division.	Timber in the rough; logs.					Timber in the rough; poles.				
	Government.	Purchasers.	Fees grantees.	Right-holders.	Total.	Government.	Purchasers.	Free grantees.	Right-holders.	Total.
Dehra Dún.	C. ft.	C. ft.	C. ft.	C. ft	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.
										I.—Reserved
(a) Regeneration—										
Selection fellings	...	...	...	...	...	...	...	...	...	...
Coppice do.	774	...	...	...	774	16	510	...	...	526
(b) Amelioration—										
Improvement fellings ...	272	45,736	...	...	46,008	5,508	46,920	...	...	52,428
Thinnings	...	...	...	...	...	...	...	...	...	...
(c) Miscellaneous—										
Unclassed fellings	...	108	...	...	108	...	1,344	...	...	1,344
Clearances	400	85	...	...	485	...	...	...	...	...
Drift wood	3,887	11,583	...	...	15,470	44	11,582	...	...	11,626
Dead and fallen	240	167	...	...	407	...	6,927	...	...	6,927
Total ...	5,573	57,679	...	...	63,252	5,568	67,283	...	...	72,851
Saháranpur.										
(a) Regeneration—										
Selection fellings	692	13,602	...	...	14,294	...	...	...	...	...
Coppice do.	...	...	...	...	...	862	...	...	...	862
(b) Amelioration—										
Thinnings	...	...	...	...	...	2,400	1,132	...	...	3,532
(c) Miscellaneous—										
Unclassed fellings	...	...	...	...	...	1,133	1,051	...	...	2,184
Dead and fallen wood ...	...	36	...	...	36	...	...	...	...	...
Total ...	692	13,638	...	...	14,330	4,395	2,183	...	...	6,578
Jaunsár.										
(a) Regeneration—										
Selection fellings ... ... / Clean do.	...	2,89,320	13,220	...	3,02,540	...	...	228	...	228
Coppice do.	153	...	...	...	153	321	...	...	...	321
(b) Amelioration—										
Thinnings	...	...	...	...	...	320	...	...	...	320
(c) Miscellaneous—										
Unclassed fellings	...	...	...	...	...	..	185	...	...	185
Drift wood	3,470	...	...	...	3,470	...	...	...	...	...
Total ...	3,623	2,89,320	13,220	...	3,06,163	641	185	228	...	1,054
GRAND TOTAL ...	9,888	3,60,637	13,220	...	3,83,745	10,604	69,651	228	...	80,483
										II.—Protected
										Nil.
										III.—Unclassed
										Nil.
(a) Regeneration—										ABS
Selection fellings ... ... / Clean do.	692	3,02,922	13,220	...	3,16,834	...	...	228	...	228
Coppice do.	927	...	...	...	927	1,199	510	...	...	1,709
(b) Amelioration—										
Improvement fellings ...	272	45,736	...	...	46,008	5,508	46,920	...	...	52,428
Thinnings	...	...	...	...	...	2,720	1,132	...	...	3,852
(c) Miscellaneous—										
Unclassed fellings	...	108	...	...	108	1,133	2,580	...	...	3,713
Clearances	400	85	...	...	485	...	...	...	...	...
Drift wood	7,357	11,583	...	...	18,940	44	11,582	...	...	11,626
Dead and fallen wood ...	240	203	...	...	443	...	6,927	...	...	6,927
Total ...	9,888	3,60,637	13,220	...	3,83,745	10,604	69,651	228	...	80,483

Charcoal should be shown by its equivalent in fuel, the quantity

DEHRA DÚN;
The 18th September 1893.

[Form No. 57.

CIRCLE, N.-W. PROVINCES AND OUDH.

DURING THE YEAR 1892-93, AND AGENCY OF EXPLOITATION.

Sawn or squared timber.					Miscellaneous.					Fuel.					Total.
Government.	Purchasers.	Free grantees.	Right-holders.	Total.	Government.	Purchasers.	Free grantees.	Right-holders.	Total.	Government.	Purchasers.	Free grantees.	Right-holders.	Total.	Outturn.
C. ft.	C. ft.	C. ft.	C ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.
Forests.															
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
310	40	...	...	350	40	74	...	...	114	1,53,495	...	...	...	1,53,495	1,55,259
7,364	469	...	...	7,833	1,320	46,556	...	...	47,876	35,210	...	...	...	35,210	1,89,355
...	...	...	...	...	...	...	...	...	...	...	8,700	...	...	8,700	8,700
...	33	...	...	33	...	1,049	...	...	1,049	...	...	...	...	...	2,534
...	...	...	...	...	...	139	...	...	139	957	...	...	...	957	1,581
5,978	...	...	...	5,978	...	11,585	...	...	11,585	11,976	33	...	...	12,009	56,068
...	...	...	...	...	...	220	...	...	220	1,617	2,05,704	7,260	3,52,160	5,66,741	5,74,295
13,652	542	...	...	14,194	1,360	59,623	...	...	60,983	2,03,255	2,14,437	7,260	3,52,160	7,77,112	9,88,392
10,299	...	...	...	10,299	...	...	...	...	...	...	...	...	...	...	21,593
...	...	...	...	...	...	...	...	...	...	32,149	16,000	...	...	48,149	49,011
...	...	...	...	...	...	...	...	...	...	12,600	...	...	...	12,600	16,132
...	...	...	...	...	...	284	...	...	284	...	...	...	...	...	2,468
...	...	...	...	...	...	...	...	...	...	...	2,18,392	...	2,51,446	4,69,838	4,69,874
10,299	...	...	...	10,299	...	284	...	...	284	44,749	2,34,392	...	2,51,446	5,30,587	5,62,078
2,49,532	...	1,180	...	2,50,712	...	2,730	...	...	2,730	96,804	...	...	...	96,804	6,53,014
...	2,12,075	...	...	2,12,075	...	1,145	...	...	1,145	...	25,000	9,73,493	...	9,98,493	12,11,713
...	...	...	...	...	...	...	...	...	...	36,920	667	...	...	37,587	38,061
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	320
...	...	...	...	...	...	...	...	...	...	8,267	...	...	...	8,267	8,452
...	...	...	...	...	...	...	...	...	...	71,304	...	...	...	71,304	74,774
2,49,532	2,12,075	1,180	...	4,62,787	...	3,875	...	...	3,875	2,13,295	25,667	9,73,493	...	12,12,455	19,86,334
2,73,483	2,12,617	1,180	...	4,87,280	1,360	63,782	...	...	65,142	4,61,299	4,74,496	9,80,753	6,03,606	25,20,154	35,36,804
Forests.															
Forests.															
TRACT.															
2,59,831	...	1,180	...	2,61,011	...	2,730	...	...	2,730	96,804	...	...	...	96,804	6,77,607
...	2,12,075	...	...	2,12,075	...	1,145	...	...	1,145	...	25,000	9,73,493	...	9,98,493	12,11,713
310	40	...	...	350	40	74	...	...	114	2,22,561	16,667	...	...	2,39,231	2,42,391
7,364	469	...	...	7,833	1,320	46,556	...	...	47,876	35,210	...	...	...	35,210	1,89,355
...	...	...	...	...	...	...	...	...	...	12,600	8,700	...	...	21,300	25,152
...	33	...	...	33	...	1,333	...	...	1,333	8,267	...	...	...	8,267	13,154
...	...	...	...	...	...	139	...	...	139	957	...	...	...	957	1,581
5,978	...	...	...	5,978	...	11,585	...	...	11,585	83,280	33	...	...	83,313	1,31,412
...	...	...	...	...	...	220	...	...	220	1,617	4,24,096	7,260	6,03,606	10,36,579	10,44,169
2,73,483	2,12,617	1,180	...	4,87,280	1,360	63,782	...	...	65,142	4,61,299	4,74,496	9,80,753	6,03,606	25,20,154	35,36,804

of wood consumed in producing it being entered in cubic feet, solid.

J. S. GAMBLE,
Conservator of Forests, School Circle, N.-W. P and Oudh.

[Form No. 58.

FOREST DEPARTMENT, SCHOOL CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

OUTTURN OF MINOR FOREST PRODUCE DURING THE FOREST YEAR, 1892-93.

Division.	Description of produce.	Produce removed or utilized. By Government agency. Quantity.	By Government agency. Value.	By purchasers. Quantity.	By purchasers. Value.	By free grants. Quantity.	By free grants. Value.	By right-holders. Quantity.	By right-holders. Value.	Total. Quantity.	Total. Value.	Remarks.
	I.—Reserved Forests.	No.	Rs.	No.	Rs.	No.	Rs.	No.	Rs.	No.	Rs.	
Dehra Dún.	Bamboos	149,860	*1,049	992,230	6,056	...	...	...	...	1,142,090	8,005	* Includes Rs. 8 for bamboos used departmentally.
	Grazing	...	...	...	10,014	...	550	...	636	...	11,200	
	Fodder grass (head-loads, &c.)	...	...	2,966	600	...	...	...	...	2,966	600	
	Total ...	...	...	2,966	10,614	...	550	...	636	2,966	11,800	
	Lease of limestone ...	...	...	...	1,051	...	...	...	...	...	1,051	
	„ of hides and horns ...	...	...	...	261	...	...	...	...	...	261	
	„ of thatching grass ..	...	...	...	3,018	...	...	...	...	...	3,018	
	„ minor produce ...	...	...	...	182	...	...	...	...	...	182	
	Passes of ditto	...	...	...	933	...	...	...	...	...	933	
	Total ...	...	...	...	5,445	...	...	...	...	...	5,445	
	Total Dehra Dún Division ...	...	1,049	...	22,115	...	550	...	636	...	25,250	
Saháranpur.	Bamboos	46,405	879	22,910	145	...	...	...	...	69,315	1,024	
	„ (leased) ...	...	...	701,000	4,400	...	...	...	...	704,000	4,400	
	„ (dry) ...	...	...	41,540	130	...	...	...	...	41,540	130	
	Total ...	46,405	879	768,450	4,675	...	...	..	...	814,855	5,554	
	Grazing	...	...	...	17,188	...	...	...	571	...	17,759	
	Fodder grass	...	...	...	28	...	...	...	...	...	28	
	Total ...	...	...	...	17,216	...	...	...	571	...	17,787	
	Hides and horns	...	...	...	282	...	...	...	...	...	282	
	Honey and wax	...	...	...	225	...	...	...	...		225	
	Stones	...	...	...	66	...	...	...	...	...	66	
	Chattiwála (*vitex Negando* stems).	...	...	...	408	...	...	...	...	...	408	
	Harra and Bahera ...	...	10	...	...	...	...	...	...	...	10	
	Gums	...	...	...	400	...	...	...	...	...	400	
	Grasses, bhabar, pulas, &c. ...	...	...	...	161	...	...	...	...	...	161	
	Lac	...	48	...	10	...	...	...	...	...	58	
	Other minor produce ...	...	...	...	521	...	...	...	...	...	521	
	Lease of ditto	...	...	...	7,381	...	...	...	...	...	7,381	
	Total ...	...	58	...	9,154	...	...	...	...	...	9,512	
	Total Saháranpur Division ...	...	937	...	31,315	...	...	...	571	...	32,853	
Jaunsár.	Bamboos	...	...	800	10	500	7	...	...	1,300	17	
	Ringals	...	...	89,800	86	...	...	...	...	89,800	86	
	Total ...	...	...	90,600	96	500	7	...	...	91,100	103	
	Grazing	...	...	...	†3,122	...	9,023	...	...	...	12,145	† Includes Rs. 45 for compensation received.
	Fodder grass (loads, &c.) ...	19,532	68	...	46	...	2,000	...	...	...	2,114	
	Total ...	...	68	...	3,168	..	11,023	...	...	...	14,559	
	Resin ... Mds. ...	868	3,174	...	...	...	...	...	...	868	3,174	
	Colophony ... do. ...	373	1,888	...	...	...	...	...	...	373	1,888	
	Turpentine ... do. ...	75	1,202	...	...	...	...	...	...	75	1,202	
	Deodar oil ... do. ...	3	70	...	...	...	...	...	...	3	70	
	Other minor produce do. ...	...	...	...	187	...	500	...	...	...	687	
	Lime ... do. ...	365	93	...	...	...	...	...	...	365	93	
	Total ...	...	6,727	...	187	...	500	...	...	...	7,414	
	Total Jaunsár Division ...	...	6,795	...	3,758	...	11,530	...	...	...	22,075	
	II.—Protected Forest. *Nil.*											
	III.—Unclassed Forests. *Nil.*											
	Abstract for Reserved Forests.											
The circle.	Bamboos	196,265	2,828	1,851,280	10,827	500	7	...	...	2,048,045	13,662	
	Grazing dues and fodder grass	...	68	...	31,298	...	11,573	...	1,207	...	44,146	
	Minor produce	...	6,785	...	15,086	...	500	...	...	...	22,371	
	Total ...	...	9,681	...	57,211	...	12,080	...	1,207	...	80,179	

DEHRA DÚN;
The 18th September 1893.

J. S. GAMBLE,
Conservator of Forests, School Circle, N.-W. P. and Oudh.

[Form No. 59.

FOREST DEPARTMENT, SCHOOL CIRCLE, N. W. PROVINCES AND OUDH.

ACCOUNT OF TIMBER AND OTHER PRODUCE CUT OR COLLECTED BY GOVERNMENT AGENCY AND BROUGHT TO DEPÔTS, SOLD LOCALLY, OR OTHERWISE DISPOSED OF DURING THE FOREST YEAR, 1892-93.

Particulars.	Number or quantity.	Cubic feet.	Total of each head. Number or quantity.	Total of each head. Cubic feet
BALANCE IN HAND ON 1ST APRIL 1892.				
Debra Dún Division. Sál karis, sleepers, bargas, &c.	2,276	2,370	...	
Debra Dún Division. Drift timber logs, &c. ...	137	1,146	2,413	3,516
Debra Dún Division. Fire-wood	...	375	...	375
Sahárunpur Division. Sál and Kukat poles ...	4,952	7,206	4,952	7,206
Jaunsár Division. Metre gauge, deodar sleepers	110,721	176,669	...	...
Jaunsár Division. Broad ditto ditto	4	16	...	...
Jaunsár Division. Fir, pine, deodar, sál, oak, tun and timber.	33,851	44,980	144,579	221,667
Jaunsár Division. Fire-wood and charcoal ..	...	132,972	...	132,972
Jaunsár Division. Crude resin ... Mds	34—8	...	34—8	...
Jaunsár Division. Turpentine ... do.	66—38	...	66—38	...
Jaunsár Division. Chir and kail tar do.	80—20	...	80—20	...
Jaunsár Division. Lime ... do.	...	125	...	125
Total balance. Timber	...	...	151,944	232,387
Total balance. Fire wood and charcoal ...	...	...	...	133,347
Total balance. Resin (maunds) ...	...	...	34—8	...
Total balance. Turpentine (maunds) ...	...	...	66—38	...
Total balance. Chir and kail tar (maunds)	...	...	80—20	...
Total balance. Lime	...	...	...	125
RECEIVED FROM THE FORESTS IN DEPÔTS.				
Sál, sissoo, tun logs, sál poles, tors karis, sleepers, rollers, pieces, &c.	21,057	27,405	...	...
Metre gauge deodar sleepers ..	54,837	86,809		...
Broad ditto ditto ...	34,566	119,687		...
Pine, deodar, fir, oak, tun, &c., timber.	26,594	41,084	137,052	277,985
Fire-wood and charcoal ..	...	360,499	...	360,499
Bamboos ... ... No.	195,265	.. .	195,265	
Harra and bahera fruits (maunds)	36—0	...	36—0	
Colophony ... ditto ..	373—4	...	373—4	
Crude resin ... ditto ...	867—3	...	867—3	
Turpentine ... ditto ...	75—17	...	75—17	
Lime	...	235	...	235
Deodar oil ... maunds ...	3—20	..	3—20	
Grass pulas (bundles and loads) ...	19,532		19,532	
DEPARTMENTAL COLLECTION OF DRIFT TIMBER FROM THE JUMNA AND GANGES.				
Sál, sissu, &c. logs, karis, &c. ..	3,204	9,909		
Deodar, chir, &c., logs, karis and bargas.	1,935	3,670	5,139	13,579
Fire-wood and charcoal ...	...	109,116	...	109,116
Confiscated grass pulas ...	60	...	60	...
RECEIVED FROM THE FORESTS AND SOLD LOCALLY.				
Sál, and kukat poles	1,200	2,400		
Deodar, fir, pine, sál and oak, &c., timber.	14,276	23,459	15,476	25,859
Fire-wood and charcoal .	...	52,441	...	52,441
Resin ... ... Mds	1—21	...	1—21	
Lime	...	30	...	30

Particulars.	Number or quantity	Cubic feet.	Total of each head. Number or quantity.	Total of each head. Cubic feet.
REMOVED BY PURCHASERS FROM DEPÔTS.				
Broad gauge deodar sleepers.	31,445	108,816		
Metre ditto ...	51,367	86,061		
Fir, pine, deodar, sál, oak timber, &c.	14,760	17,535		
Chir karis ...	6,113	10,189		
Sál and kukat poles ..	6,172	8,033	109,857	230,634
Fire-wood and charcoal...	...	208,093	..	208,093
Bamboos ... No.	38,905	...	38,905	...
Crude resin .. Mds	3—32	...	3—32	...
Colophony do.	373—4	..	373—4	...
Turpentine ... do.	31—33	...	31—33	...
Deodar oil ... do.	0—20	...	0—20	...
Chir and kail tar do.	1—0	...	1—0	...
Grass pulas (bundles and loads.)	19,532	.	19,532	...
SOLD FROM DEPÔTS.				
Tun, &c., logs ..	290	839		
Karis and bargas and sleepers.	8,348	9,345		
Slabs and rollers ...	513	546		
Ballas and tors ...	2,366	3,590		
Ballis and korwas ...	2,806	1,261	14,323	15,581
Bamboos	149,860	...	149,860	...
Fire-wood	...	85,429	...	85,429
SOLD LOCALLY.				
Sál and kukat poles ...	1,200	2,400		
Fir, pine, deodar, &c., timber.	14,276	23,459	15,476	25,859
Fire wood and charcoal...	...	51,171	...	51,171
Lime	...	30	...	30
Resin ... Mds.	1—21	...	1—21	...
CONVERTED IN DEPÔTS AND TRANSFERRED TO OTHER DIVISIONS.				
Fir, pine, deodar, &c., timber.	233	415	233	415
Crude resin... Mds.	510—22	...	510—22	...
Chir and kail tar do.	11—0	...	11—0	...
LOST OR WRITTEN OFF.				
M. G. deodar sleepers ...	48	75		
Deodar, fir, pine, oak and tun timber. ...	767	1,331	815	1,406
Fire-wood and charcoal ...	...	2,607	...	2,607
Harra fruit... . Mds.	10—20	...	10—20	...
Bahera do. ... do.	16—0	...	16—0	...
DRIFT TIMBER, &c.				
Logs, karis, timber, gats, bargas, &c.	2,056	7,813	2,056	7,813
Fire-wood and charcoal...	...	105,491	..	105,491
Pula grass (confiscated) No.	60	...	60	...
MADE OVER TO CLAIMANTS (DRIFT TIMBERS.)				
Logs, karis and bargas ..	2,808	6,574	2,808	6,574

[Form No. 59.

FOREST DEPARTMENT, SCHOOL CIRCLE, N.-W. PROVINCES AND OUDH.

ACCOUNT OF TIMBER AND OTHER PRODUCE CUT OR COLLECTED BY GOVERNMENT AGENCY AND BROUGHT TO DEPÔTS, SOLD LOCALLY, OR OTHERWISE DISPOSED OF DURING THE FOREST YEAR 1892-93.

Particulars.	No. or quantity.	Cubic feet.	Total of each head. No. or quantity.	Total of each head. Cubic feet.
RECEIVED FROM THE FORESTS FOR DEPARTMENTAL USE.				
Sál, sissoo and simal logs ...	39	692		
Sál and kukat poles ...	714	1,133	753	1,825
Bamboos ... ... No.	1,000	...	1,000	
Grand Total.				
Timber	...	...	310,364	551,635
Fire-wood and charcoal ...	...	...	...	655,403
Bamboos ...	...	...	196,265	...
Colophony ... Mds.	...	...	373—4	...
Harra and bahera fruits "	...	...	36—0	...
Resin ... "	...	...	902—32	...
Turpentine ... "	...	...	142—15	...
Deodar oil ... "	...	...	3—20	...
Chir and kail tar "	...	...	80—20	...
Pula grass	...	...	19,592	...
Lime	...	...	...	390

Particulars.	No. or quantity.	Cubic feet.	Total of each head. No. or quantity.	Total of each head. Cubic feet.
USED BY DEPARTMENT.				
Sál, tun, sissoo and simal, logs.	120	1,500		
Sal, ballas, ballis and sál, and kukat poles	876	1,390		
Metre gauge deodar sleepers.	273	367		
Deodar, fir, pine, &c. timber.	16,105	28,561		
Broadgauge deodar sleepers.	15	29		
Drift timber ...	35	34	17,424	31,881
Fire-wood and charcoal...	...	5,579	...	5,579
Bamboos	7,480	...	7,480	...
Turpentine ... Mds.	0—9	...	0—9	...
Chir and kail tar do.	13—0		13 0	...
Lime	...	125	...	125
BALANCE AT CLOSE OF THE YEAR.				
DEHRA DÚN DIVISION.				
Tun, &c, logs, karis and bargas.	25	147		
Ballas, tors, ballis, &c. ...	1,247	1,841	1,272	1,982
Fire-wood	...	105,821	...	105,818
SAHARANPUR DIVISION.				
Chir and khair karis ...	110	110		
Sál and kukat poles ...	52	15	162	125
Fire-wood and charcoal ...	...	877	...	877
Bamboos No.	20	...	22	...
Harra and bahera fruits (mds.)	9—20	...	9—20	...
JAUNSÁR DIVISION.				
Broadgauge deodar sleepers.	3,110	10,858		
Metre Ditto ...	113,871	176,975		
Fir, pine, deodar, sál, oak, &c., timber.	28,600	41,255		
Drift timber ...	357	271	145,938	229,359
Fire-wood and charcoal ...	...	90,334	...	90,334
Crude resin Mds.	386—37	...	386—37	...
Turpentine do.	110—13	...	110—13	...
Deodar oil do.	3—0	...	3—0	...
Chir and kail tar mds.	55—20	...	55—20	...
Lime ...		235	...	235
Total balance.				
Timber ...	...	...	147,372	231,472
Firewood and charcoal.	...	...	...	197,032
Bamboos No.	...	...	20	...
Harra and bahera fruits Mds.	...	...	9—20	...
Crude resin do.	...	...	386—37	...
Turpentine do.	...	...	110—13	...
Deodar oil do.	...	...	3—0	...
Chir and kail tar Mds.	...	...	55—20	...
Lime ...	...	...	..	235
Grand Total.				
Timber ...	...	...	310,364	551,635
Fire wood] and charcoal.	...	...	...	655,403
Bamboos No	...	...	196,265	...
Colophony Mds.	...	...	373—4	...
Harra and bahera fruits. Mds.	...	...	36—0	...
Resin "	...	...	902—32	...
Turpentine "	...	...	142—15	...
Deodar oil "	...	...	3—20	...
Chir and kail tar Mds.	...	...	80—20	...
Pula grass "	...	...	19,592	...
Lime	...	...		390

[Form No. 59.

FOREST DEPARTMENT, SCHOOL CIRCLE, N.-W. P. AND OUDH.

ACCOUNT OF TIMBER AND OTHER PRODUCE CUT OR COLLECTED BY GOVERNMENT AGENCY AND BROUGHT TO DEPÔTS, SOLD LOCALLY, OR OTHERWISE DISPOSED OF DURING THE FOREST YEAR 1892-93—*(concluded)*.

Particulars.	Number or quantity.	Cubic feet.	Total of each head. Number or quantity.	Total of each head. Cubic feet.
ABSTRACT.				
TIMBER INCLUDING DRIFT.				
Balance at commencement of the year.	...	2,32,387	...	...
Received from the forests in depôts.	...	2,77,985	...	...
Received from the departmental collection of drift timber from the Jumna and Ganges.	...	13,579	...	...
Received from the forests and sold locally.	...	25,859	...	...
Received from the forests for departmental use.	..	1,825	...	551,635
FIREWOOD AND CHARCOAL.				
Balance at commencement of year.	...	1,33,317		
Received from the forest in depôts	...	3,60,499		
Collection of drift wood from the Ganges and Jumna.	...	1,09,116		
Received from the forests and sold locally.	...	52,441	...	6,55,403
BAMBOOS.				
Received from the forests in depôts.	1,95,265			
Received from the forests for departmental use.	1,000			
			196,265	
COLOPHONY.				
Received from the forests in depôts (maunds.)	3,73—4	...	373—4	
HARRA AND BAHERA FRUITS.				
Received from the forests in depôts.	36—0	...	36—0	
RESIN.				
Balance at commencement of year,	34—8			
Received from the forests in depôts.	867—3			
Received from the forests and sold locally.	1—21	...	902—32	
TURPENTINE.				
Balance at commencement of year, (maunds.)	66—38			
Received from the forests in dedepôts (maunds.)	75—17	...	142—15	
DEODAR OIL.				
Received from the forests in depôts.	3—20			
			3—20	
CHIR AND KAIL TAR.				
Balance at commencement of year,	80—20			
			80—20	
PULA GRASS.				
Received from the forests in depôts.	19,532			
Departmental collection (confiscated.)	60			
			19,592	
LIME.				
Balance at commencement of year,	...	125		
Received from the forests during the year.	...	235		
Received from the forests and sold locally.	...	30	...	390

Particulars.	Number or quantity.	Cubic feet.	Total or each head. Number or quantity.	Total or each head. Cubic feet.
Removed by purchasers from depôts.	...	2,30,631		
Sold from depôts ...	...	15,581		
Sold locally ...	...	25,859		
Converted in depôts and transferred to other divisions ...	...	415		
Lost or written off ...	...	1,406		
Drift timber, &c ...	...	7,813		
Made over to claimants (drift timber).	...	6,574		
Used by department ...	...	31,881		
Balance at close of the year.	...	2,31,472	...	551,635
Removed by purchasers from depôts.	...	2,08,093		
Sold from depôts ...	...	85,429		
Sold locally ...	...	51,171		
Lost or written off ...	...	2,607		
Drift wood ...	...	1,05,491		
Used by department	...	5,575		
Balance at close of the year.	...	1,97,033	...	6,55,403
Removed by purchasers from depôts	38,905			
Sold from depôts ...	1,49,860			
Used by department ...	7,480			
Balance at close of year.	20	...	1,96,265	
Removed by purchasers from depôts (maunds).	3,73—4	...	3,73—4	
Lost or written off (mds.)	26—20			
Balance at close of year.	9—20	...	36—0	
Removed by purchasers (maunds).	3—32			
Sold locally (maunds) ...	1—21			
Converted in depôts and transferred to other divisions.	510—22			
Balance at close of year	386—37	...	902—32	
Removed by purchasers,	31—33			
Used by department ...	0—9			
Balance at close of year,	110—13	...	142—15	
Removed by purchasers...	0—20			
Balance at close of year	3—0	...	3—20	
Removed by purchasers	1—0			
Converted in depôts and transferred to other divisions.	11—0			
Used by department ...	13—0			
Balance at close of year,	55—20	...	80—20	
Sale of confiscated, &c., pulas.	60			
Removed by purchasers	19,532	...	19,592	
Sold locally ...	...	30		
Used by department ...	...	125		
Balance at close of year	...	235	...	390

DEHRA DÚN;
The 18th September 1893.

J. S. GAMBLE,
Conservator of Forests School Circle, N.W. P. and Oudh.

[Form No. 60.

FOREST DEPARTMENT, SCHOOL CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

ABSTRACT SHOWING THE VALUE OF TIMBER AND OTHER PRODUCE AT SALE DEPOTS, FOR THE FOREST YEAR 1892-93.

Description of timber and other produce.	On hand at commencement of the year.			On hand at close of the year.			Difference in value.		Remarks.
	No.	Cubic feet.	Value.	No.	Cubic feet.	Value.	In favour of the year.	Against the year.	
DEHRA DÚN DIVISION.			Rs.			Rs.	Rs.	Rs.	
Tún &c., logs	...	...	...	15	135	15	15	...	
Sál seantlings	1,970	1,649	458	10	12	...	3	455	
Sleepers	283	484	170	...	...	...	...	170	
Rollers	11	141	55	1	15	2	...	53	
Drift logs, pieces, &c.	149	1,212	344	...	...	...	...	344	
Ballas and tors	...	...	...	1,192	1,747	410	410	...	
Miscellaneous pieces	...	...	...	54	79	14	14	...	
Fire wood	...	...	...	...	1,01,821	3,258	3,258	...	
Drift fire-wood	...	375	23	...	4,000	180	157	...	
Total ...	...	...	1,050	...	...	3,882	3,854	1,022	
SAHARANPUR DIVISION.									
Sál and kukat tors, ballas and balis ...	4,952	7,206	800	52	15	13	...	787	
Chir karries	...	...	...	54	89	13	13	...	
Khair karries	...	...	...	56	21	14	14	...	
Fire wood	...	...	...	...	784	39	39	...	
Charcoal ... ... Mds	...	...	...	37 22	...	37	37	...	
Bamboos ... ... No.	...	...	...	20	...	...	...	...	
Harra fruit ... ... Mds.	...	...	...	5—20	...	6	6	...	
Bahera „ ... ... „	...	...	...	4 40	...	4	4	...	
Total ...	...	...	800	...	...	126	113	787	
JAUNSÁR DIVISION.									
Broad gauge deodar sleepers	4	16	8	3,110	10,858	6,220	6,212	...	
Metre ditto ditto	1,10,724	1,76,669	1,66,086	1,13,871	1,76,975	1,70,806	4,720	...	
Deodar, fir, kail, tun, fancy wood and miscellaneous timber including drift.	33,857	44,980	29,623	28,957	41,526	25,337	...	4,286	
Fire wood and charcoal	...	1,29 146	24,538	...	89,244	16,954	...	7,584	
Ditto (loads)	...	3,826	358	...	1,000	102	...	256	
Pine resin	...	...	153	...	...	1,741	1,588	...	
Turpentine	...	...	1,072	...	...	1,769	697	...	
Chir and kail tar	...	...	240	...	...	167	...	73	
Deodar oil	...	...	...	...	...	60	60	...	
Lime	...	125	46	...	235	87	41	...	
Total ...	.	...	2,22,124	...	...	2,23,243	13,318	12,199	
GRAND TOTAL ...	...	...	2,23,974	...	...	2,27,251	17,285	14,008	

Net difference in favor of the year, Rs. 3,277.

DATED DEHRA DÚN; *The 18th September 1893.*

J. S. GAMBLE,

Conservator of Forests, School Circle, N.-W. P. and Oudh.

[Form No. 60A.

FOREST DEPARTMENT, SCHOOL CIRCLE, N.-W. PROVINCES AND OUDH.

ABSTRACT SHOWING THE VALUE OF LIVE AND DEAD STOCK FOR THE FOREST YEAR, 1892-93.

Description of timber and other produce.	On hand at commencement of the year.		On hand at close of the year.		Difference in value.	
	Number.	Value.	Number.	Value.	In favour of the year.	Against the year.
Direction Division.		Rs.		Rs.	Rs.	Rs.
Office furniture	57	750	57	750	...	...
Tents and shouldaris	7	550	10	699	149	...
Building and building materials	2	2,300	2	2,300	...	...
Miscellaneous	27	238	29	258	20	...
Elephant	1	2,600	1	2,500	...	100
Total ...	...	6,438	...	6,507	169	100
Dehra Dún Division.						
Surveying and other instruments	62	409	64	416	7	...
Tools	1,662	1,060	1,846	1,306	246	...
Office furniture	420	952	425	973	21	...
Tents	12	244	12	231	...	13
Building and building materials	104	19,462	89	19,790	328	...
Miscellaneous	597	952	651	1,114	162	...
Elephant	1	1,520	1	1,444	...	76
Total ...	...	24,599	...	25,274	764	89
Saháranpur Division.						
Surveying and other instruments	14	108	17	266	158	...
Machinery	4	38	4	38	...	...
Tools	847	468	885	565	97	...
Office furniture	267	1,430	210	1,392	...	38
Tents	6	481	6	344	...	137
Building, &c.	56	12,945	60	14,042	1,097	...
Miscellaneous	410	1,313	392	1,151	...	162
Elephant	1	2,300	1	2,300	...	...
Buffaloe	...	...	1	12	12	...
Total ...	...	19,083	...	20,110	1,364	337
Jaunsár Division.						
Surveying and other instruments	49	526	58	651	125	...
Machinery	8	141	10	138	...	3
Tools	2,311	2,784	2,550	3,073	289	...
Office furniture	71	568	73	559	...	9
Tents	9	278	8	252	...	26
Buildings and building materials	414	45,378	443	43,980	...	1,398
Miscellaneous	2,770	702	286	504	...	198
Total ...	...	50,377	...	49,157	414	1,634
Grand Total ...	...	1,00,497	...	1,01,048	2,711	2,160

Net difference in favor of the year, Rs. 551.

Dehra Dún;
The 18th September 1893.

J. S. GAMBLE,
Conservator of Forests, School Circle, N.-W. P. and Oudh.

[Form No. 61.

FOREST DEPARTMENT, SCHOOL CIRCLE, N.-W. PROVINCES AND OUDH.

SUMMARY OF REVENUE OF THE DIFFERENT DIVISIONS FOR THE FOREST YEAR, 1892-93.

Budget Heads.	Direction Division.	Dehra Dún Division.	Saháranpur Division.	Jaunsar Division.	Total.
RECEIPTS.	Rs. a. p.	Rs. a. p.	Rs. a. p	Rs. a. p.	Rs. a. p.
I.—Timber and other produce removed from the forests by Government agency—					
a. Timber	...	4,952 0 0	3,524 0 0	1,81,952 0 0	1,90,428 0 0
b. Firewood and charcoal	...	2,801 0 0	947 0 0	40,696 0 0	44,444 0 0
c. Bamboos	...	1,941 0 0	762 0 0	...	2,703 0 0
d. Sandal-wood	...	...	...	...	...
e. Grass and other minor produce ...	...	...	48 0 0	2,309 0 0	2,357 0 0
Total ...	...	9,694 0 0	5,281 0 0	2,24,957 0 0	2,39,932 0 0
II.—Timber and other produce removed from the forests by consumers or purchasers—					
a. Timber	...	40,630 0 0	1,235 0 0	69,912 0 0	1,11,777 0 0
b. Fire-wood and charcoal	...	3,632 0 0	3,686 0 0	489 0 0	7,807 0 0
c. Bamboos	...	6,056 0 0	4,675 0 0	96 0 0	10,827 0 0
d. Grazing and fodder grass	...	10,794 0 0	17,299 0 0	3,422 0 0	31,515 0 0
e. Other minor produce	...	5,445 0 0	9,149 0 0	287 0 0	14,881 0 0
Total ...	...	66,557 0 0	36,044 0 0	74,206 0 0	1,76,807 0 0
III.—Drift and waif wood and confiscated forest produce	...	3,248 0 0	500 0 0	3,733 0 0	7,481 0 0
Total ...	...	3,248 0 0	500 0 0	3,733 0 0	7,481 0 0
IV.—Revenue from forests not managed by Government—					
a. Duty on foreign timber and other forest produce	...	...	...	8,569 0 0	8,569 0 0
b. Revenue from shared and private forests ...	...	...	...	...	...
Total ...	...	...	...	8,569 0 0	8,569 0 0
V.—Miscellaneous—					
a. Fines and forfeitures	...	...	16 0 0	250 0 0	266 0 0
b. Refunds	...	...	...	5 0 0	5 0 0
c. Others sources	103 0 0	604 0 0	1,046 0 0	3,988 0 0	5,741 0 0
Total ...	103 0 0	604 0 0	1,062 0 0	4,243 0 0	6,012 0 0
TOTAL RECEIPTS	103 0 0	80,103 0 0	42,887 0 0	3,15,708 0 0	4,38,801 0 0
A.—CONSERVANCY AND WORKS.					
I.—Timber and other produce removed from the forests by Government agency—					
a. Timber	...	2,766 0 0	2,310 0 0	1,03,785 0 0	1,08,861 0 0
b. Fire-wood and charcoal	...	3,189 0 0	544 0 0	21,589 0 0	25,322 0 0
c. Bamboos	...	817 0 0	397 0 0	...	1,214 0 0
d. Sandal-wood	...	...	...	...	...
e. Grass and other minor produce ...	21 0 0	...	90 0 0	3,640 0 0	3,751 0 0
Total ...	21 0 0	6,772 0 0	3,341 0 0	1,29,014 0 0	1,39,148 0 0
II.—Timber and other produce removed from the forests by consumers or purchasers ...	...	1,797 0 0	278 0 0	73 0 0	2,148 0 0
Total ...	...	1,797 0 0	278 0 0	73 0 0	2,148 0 0
II.—Drift and waif wood and confiscated forest produce	...	1,667 0 0	7 0 0	1,273 0 0	2,947 0 0
Total ...	...	1,667 0 0	7 0 0	1,273 0 0	2,947 0 0
IV.—Revenue from forests not managed by Government—					
a. Duty on foreign timber and other forest produce	...	...	...	4,950 0 0	4,950 0 0
b. Revenue from shared and private forests ...	...	...	...	...	...
Total ...	...	...	...	4,950 0 0	4,950 0 0
V.—Rent of leased forests and payments to shareholders in forests managed by Government	...	702 0 0	...	12,225 0 0	12,927 0 0
Total ...	...	702 0 0	...	12,225 0 0	12,927 0 0

[Annual Form No 61.

FOREST DEPARTMENT, SCHOOL CIRCLE, N.-W. PROVINCES AND OUDH.

SUMMARY OF EXPENDITURE OF THE DIFFERENT DIVISIONS FOR THE FOREST YEAR, 1892-93.

Budget Heads.	Direction Division.	Dehra Dún Division.	Saháranpur Division.	Jaunsar Division.	Total Division.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
VI.—Live Stock, Stores, Tools and Plant—					
a. Purchase of cattle	...	...	12 0 0	...	12 0 0
b. Feed and keep of cattle	788 0 0	769 0 0	1,098 0 0	...	2,655 0 0
c. Purchase of stores, tools and plant ..	428 0 0	615 0 0	429 0 0	980 0 0	2,452 0 0
Total ...	1,216 0 0	1,384 0 0	1,539 0 0	980 0 0	5,119 0 0
VII.—Communications and Buildings—					
a. Roads and bridges	...	5,354 0 0	791 0 0	13,918 0 0	20,063 0 0
b. Buildings	107 0 0	3,216 0 0	2,254 0 0	5,038 0 0	10,615 0 0
c. Other Works	...	1,261 0 0	853 0 0	277 0 0	2,391 0 0
Total ...	107 0 0	9,831 0 0	3,898 0 0	19,233 0 0	33,069 0 0
VIII.—Demarcation, improvement and extension of Forests—					
a. Demarcation	...	1,035 0 0	1,692 0 0	1,885 0 0	4,612 0 0
b. Compensation for land and rights ...	...	...	...	107 0 0	107 0 0
c. Surveys	...	...	...	627 0 0	627 0 0
d. Working Plans	...	...	...	...	...
e. Sowing and Planting	...	3,344 0 0	679 0 0	5,174 0 0	9,197 0 0
f. Protection from fire	...	4,348 0 0	2,036 0 0	2,623 0 0	9,007 0 0
g. Other works	...	7,107 0 0	906 0 0	1,032 0 0	9,135 0 0
Total ...	...	15,834 0 0	5,403 0 0	11,448 0 0	32,685 0 0
IX.—Miscellaneous—					
a. Refunds	...	100 0 0	1,600 0 0	402 0 0	2,102 0 0
b. Law charges	...	8 0 0	2 0 0	1 0 0	11 0 0
c. Other charges	267 0 0	829 0 0	278 0 0	1,775 0 0	3,149 0 0
Total ...	267 0 0	937 0 0	1,880 0 0	2,178 0 0	5,262 0 0
TOTAL A.—CONSERVANCY AND WORKS ...	1,611 0 0	38,924 0 0	16,346 0 0	1,81,374 0 0	2,38,255 0 0
B.—ESTABLISHMENT.					
I.—SALARIES—					
a. Conservators	24,000 0 0	...	...	...	24,000 0 0
b. Superior officers	...	12,290 0 0	7,980 0 0	15,494 0 0	35,764 0 0
c. Subordinate forest and depôt establishments	...	10,287 0 0	8,291 0 0	9,959 0 0	28,537 0 0
d. Office establishments	4,895 0 0	2,857 0 0	1,992 0 0	3,163 0 0	12,907 0 0
e. Deputation and special allowances ...	461 0 0	...	...	4 0 0	465 0 0
Total ...	29,356 0 0	25,434 0 0	18,263 0 0	28,620 0 0	1,01,673 0 0
II.—TRAVELLING ALLOWANCES—					
a. Conservators	1,086 0 0	...	...	...	1,086 0 0
b. Superior officers	...	1,376 0 0	1,101 0 0	1,358 0 0	3,835 0 0
c. Subordinate forest and depôt establishments	...	1,310 0 0	841 0 0	1,243 0 0	3,394 0 0
d. Office establishments	132 0 0	141 0 0	154 0 0	69 0 0	496 0 0
Total ...	1,218 0 0	2,827 0 0	2,096 0 0	2,670 0 0	8,811 0 0
III.—CONTINGENCIES—					
a. Stationery	9 0 0	207 0 0	163 0 0	70 0 0	449 0 0
b. Carriage of tents and records ...	466 0 0	706 0 0	577 0 0	631 0 0	2,380 0 0
c. Rents, rates and taxes	...	460 0 0	15 0 0	49 0 0	524 0 0
d. Pay of police guards	...	...	...	...	...
e. Official postage	180 0 0	121 0 0	187 0 0	122 0 0	610 0 0
f. Sundries	849 0 0	388 0 0	334 0 0	617 0 0	2,188 0 0
Total ...	1,504 0 0	1,882 0 0	1,276 0 0	1,489 0 0	6,151 0 0
TOTAL B.—ESTABLISHMENT ...	32,078 0 0	30,143 0 0	21,635 0 0	32,779 0 0	1,16,635 0 0
GRAND TOTAL OF EXPENDITURE ...	33,689 0 0	69,067 0 0	37,981 0 0	2,14,153 0 0	3,54,890 0 0
SURPLUS OR DEFICIT ...	—33,586 0 0	+11,036 0 0	+4,906 0 0	+1,01,555 0 0	+83,911 0 0

CALCUTTA;
The 11th September 1893.

I. C BOSE,
Assistant Comptroller-General (Forests).

[Form No. 62.

FOREST DEPARTMENT, SCHOOL CIRCLE, NORTH-WESTERN PROVINCES AND OUDH.

ACCOUNT CURRENT FOR THE FOREST YEAR, 1892-93.

Dr.

	Rs. a p.	Rs. a. p.
To Cash Balance ...	...	100 0 3
„ VIII.—Assessed Taxes—		
Income Tax—Deductions from salaries.	...	1,780 2 9
To Revenue as per Annual Summary, Form No. 61.	...	4,38,801 7 5
„ Service Funds— ...	...	...
Civil Fund - Ordinary, Bengal...	...	...
„ Additional, Bengal...	...	...
Military Fund—Bengal ...	...	...
„ „ Madras ...	...	...
„ Orphan Fund—Bengal	...	...
Uncovenanted Service Family Pension Fund—Bengal.	...	...
General Family Pension Fund ...	...	...
Hindu Family Annuity Fund ...	...	...
To Deposits	...	1,050 0 0
„ Forest Cash Remittances—Local—.		
Forest cheques drawn ...	3,40,692 14 4	
Inter-Divisional Transfers ...	1,210 5 4	3,41,903 3 8
To Advances recoverable ...	...	2,14,708 15 10
Suspense		...
To Account Current (other Governments)—		
Remittances from Government of India.	4,426 10 8	...
Remittances from Government of Bengal.	19 3 2	...
		4,445 13 10
To Inter-Departmental Transfers—		
Public Works Department State Railways	0 8 9	...
Ditto (Ordinary Branches) ...	16,800 2 6	...
Military Department ...		
Civil Department	2 0 0	...
Jail	...	...
Mathematical Instrument Department	250 14 0	...
Miscellaneous	278 1 0	17,331 10 3
Total ...	...	10,20,121 6 0

Cr.

	Rs. a. p	Rs. a. p.
By Expenditure as per Annual Summary Form No. 61.	...	3,54,889 14 4
„ Deposits	...	1,296 0 0
„ Forest Cash Remittances—Local.—		
„ Remittances to Treasuries,	2,13,726 1 0	...
„ Inter-Divisional Transfers,	1,279 15 1	...
		2,15,006 0 1
„ Advances Recoverable ...	...	2,15,601 13 2
„ Suspense	...	...
„ Account Current (other Governments)—	...	...
„ Remittances to the Government of India.	941 15 11	...
„ Ditto ditto Pánjab...	22,474 13 6	...
„ Ditto ditto Assam ...	4,371 10 2	...
		27,788 7 7
„ Inter Departmental Transfers—		
„ Public Works Department (State Railways)—	1,60,249 3 2	...
„ Public Works Department (Ordinary Branches).	8,728 5 8	...
„ Military Department, Bengal.	36,556 9 4	...
„ Civil Department ...	...	...
		2,05,534 2 2
„ Cash Balance ...	...	5 0 8
Total ...	...	10,20,121 6 0

Calcutta:
The 11th September, 1893.

I. C. BOSE,
Assistant Comptroller-General (Forests)

[Form No. 63.

FOREST DEPARTMENT, SCHOOL CIRCLE, N.-W. PROVINCES AND OUDH.

REVENUE RECEIVED AND OUTSTANDINGS ON ACCOUNT OF REVENUE DURING THE FOREST YEAR, 1892-93.

Division.	Particulars.	Outstandings at commencement of year.	Value of sales and other revenue during year.	Total.	Amount realised during year.	Balance due to the Department at end of year.	Remarks.
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
Direction ...	Sale proceeds of timber and other forest produce.	...	102 8 9	102 8 9	102 8 9	...	
Dehra Dún ...	Ditto ditto ...	14,175 12 3	77,050 2 4	91,225 14 7	80,103 1 10	11,122 12 9	
Saháranpur ...	Ditto ditto ...	499 4 11	43,355 10 2	43,854 15 1	42,887 3 1	967 12 0	
Jaunsár ...	Ditto ditto ...	32,969 15 2	3,03,983 8 5	3,36,953 7 7	3,15,708 9 9	21,244 13 10	
	Total ...	47,645 0 4	4,24,491 13 8	4,72,136 14 0	4,38,801 7 5	33,335 6 7	

DEHRA DÚN;
The 18th September 1893.

J. S. GAMBLE,
Conservator of Forests, School Circle, N.-W. P. and Oudh.

[Form No. 64.

FOREST DEPARTMENT, SCHOOL CIRCLE, N.-W. PROVINCES AND OUDH.

OUTSTANDINGS AND LIABILITIES ON ACCOUNT OF CONTRACTORS AND DISBURSERS FOR THE FOREST YEAR, 1892-93.

Division.	Department debtor.			Department creditor.			Balance due.	
	At commencement of year.	Recoveries in cash and value of supplies and work done during the year.	At close of year.	At commencement of year.	Payments made during year.	At close of year.	To Department (Outstandings).	By Department (Liabilities).
1	2	3	4	5	6	7	8	9
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Direction ...	6 8 6	1,073 13 4	1,080 5 10	70 0 0	1,028 3 2	1,098 3 2	24 5 4	6 8 0
Dehra Dún ...	...	57,001 9 10	57,001 9 10	1,840 1 5	58,121 12 5	59,961 13 10	2,960 4 0	...
Saháranpur ...	...	13,853 10 10	13,853 10 10	1,585 9 1	14,281 9 4	15,867 2 5	2,013 7 7	...
Jaunsár ...	...	1,42,779 13 10	1,42,779 13 10	27,415 10 3	1,42,170 4 3	1,69,585 14 6	26,806 0 8	...
TOTAL ...	6 8 6	2,14,708 15 10	2,14,715 8 4	30,911 4 9	2,15,601 13 2	2,46,513 1 11	31,804 1 7	6 8 0

CALCUTTA;
The 11th September 1893.

I. C. BOSE,
Asst. Comptroller-General (Forests).

[Form No. 65.

FOREST DEPARTMENT, SCHOOL CIRCLE, N.-W. PROVINCES AND OUDH.

FINANCIAL RESULTS OF THE FOREST YEAR, 1892-93.

Division.	Timber and other produce removed from the forests by Government agency.		Other revenue.		Formation, protection and improvement of forests.	Total.		Remarks.
	Receipts.	Charges.	Receipts.	Charges.	Charges.	Receipts.	Charges.	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
Dehra Dún ...	10,555	13,237	69,578	18,670	47,267	80,133	79,174	
Saháranpur ...	5,281	6,980	37,616	11,427	22,943	42,897	41,350	
Jaunsár ...	2,28,690	1,82,416	87,081	15,441	36,508	3,15,771	2,34,366	
Total ...	2,44,526	2,02,633	1,94,275	45,538	1,06,719	4,38,801	3,54,890	

DEHRA DÚN;
The 18th September 1893.

J. S. GAMBLE,
Conservator of Forests, School Circle, N.-W. P. and Oudh.

P. No. 02351,—16-10-93—280—Sec. B.

ORDERS OF GOVERNMENT.

No. $\frac{99F.}{XIV-663A-17}$ OF 1894.

RESOLUTION.

FOREST DEPARTMENT.

Dated Allahabad, the 17th February 1894.

READ—

Annual Progress Reports of the Administration of the Forest Department, North-Western Provinces and Oudh, for the year ending 30th June 1893.

OBSERVATIONS.—The reports of the School and Oudh Circles were sent to Press by the Conservators on the 18th and 26th of September, and that of the Central Circle on the 4th October. It is explained by the Conservators of the Oudh and Central Circles that the returns from the Auditor and Comptroller-General were only received by them on the 16th and 18th of September, and as these covered a period of 15 months, and were therefore useless for comparison with either past or future years, both Conservators have, each in his own way, separated the figures for the actual forest year, July 1892 to June 1893. The Conservator of the School Circle accepted these statements as received, and merely observed that a full comparison with past years was hardly possible. Under the circumstances the earlier submission of the reports by Conservators was not possible, but fully two months passed before the reports were printed, and this delay by the Press led to their being received by Government on the 6th of December.

There seems to be no reason why in ordinary circumstances the financial statements should not be in the hands of Conservators by the 1st of September at the latest, and, allowing a month for printing, the reports should reach Government by the 15th October. His Honor the Lieutenant-Governor will look for their punctual submission on this date in future years.

2. *Extension and Constitution of State Forests.*—The alterations of areas during the period under report were slight, except where due to corrections.

Areas.—The area of reserved forests was actually reduced by 25 square miles; as shown in the margin. Thirty-one square miles were lost to the Central Circle by the more accurate computation of areas, and one square mile was surrendered to the Ránis of Landhaura under a decree of the Civil Court. A gain of three square

AREAS OF RESERVED FORESTS IN SQUARE MILES.

Circle.	*1st April* 1892.	*30th June* 1893.
Central	1,733	1,704
Oudh	1,237	1,241
School	799*	799*
Total ...	3,769	3,744

* Inclusive of 78 square miles of leased forests.

miles by reservation brought the net loss to 29 square miles. In the Oudh Circle five square miles were reserved and one square mile was transferred to "unclassed forests," pending formal reservation, which it was found had not taken place.

The only protected forests are those of the Naini Tal District of 90 square miles, which it is proposed to convert into reserved forests, and four square miles in the Jhánsi District.

The area of the unclassed forests was diminished by reservations in the Central and Oudh Circles and increased by the addition of certain areas undergoing reservation.

In the School Circle there are 8,368 acres of waste land in the Dehra Dún Division. The Superintendent of the Dún is of opinion that 4,975 acres should be formed into a grazing ground at once on condition that the grass be fired annually. The Conservator doubts the expediency of firing and regards the proposed condition as inconsistent with the present ideas regarding reserved forests. The question is one which the Lieutenant-Governor is unable to decide until he is placed in possession of all the facts. It has not yet been proved to his satisfaction that in Dehra Dún there is an actual necessity for fodder reserves; whether it may be found possible to transport compressed fodder to places where the supply fails in years of scarcity is a question which must be settled by future experiment.

3. *Forest Settlements* are specially dealt with in the reports under review, and, for the first time, the progress made and expenditure incurred on this important branch of administration are tabulated in the newly prescribed Form No. 47. The Conservator of the School Circle, although he mentions that certain pieces of forest land are undergoing settlement, has neglected to supply this statement, as well as Forms Nos. 49 and 50, which are both intended to exhibit the progress up to date in surveys and working plans as well as that during the actual period under report. The omission will be brought to his notice, and he will be required to submit the forms in future. The settlement of new areas calls for no remark, but the Forest Settlement Officer referred to in paragraph 10 of the review of last year's reports has been engaged on the completion of the record-of-rights of the submontane reserves in the Central Circle, and, acting on the advice of the Inspector-General of Forests, His Honor the Lieutenant-Governor has reviewed all previous settlements, and passed such orders as seem called for with a view to placing the reserves on an unassailable legal basis. As these measures have been made the subject of a special report, and have received the approval of the Government of India, further notice of them may be deferred until they shall have been carried out. Additional reservations, still in the preliminary stage, comprise in the Central Circle some forest areas which it is proposed to set apart for the wood supply of Almora, and certain tracts of the Kumaun-Bhábar, specially suited for the production of acacia catechu, to which attention was directed in Government

of India's letter No. 347F., dated 13th May 1892. In the Oudh Circle the exchange of lands with the Khairigarh estate and the realignment of boundaries in Gonda are matters under settlement tending to the consolidation of the reserves. No case has been made out for a new settlement in Jaunsár, and the opinion expressed by the Conservator since the question was under the consideration of Government is perhaps out of place in the report. With revised notifications describing the boundaries more accurately it may be necessary to formally reserve certain areas and to disafforest others, and this measure may probably meet the requirements of the case. His Honor the Lieutenant-Governor has observed that the permanent supply of wood for Mussooree is under consideration, and he will institute inquiries as to what action is possible in order to provide such a supply.

The provisions of Chapter IV of Act VII of 1878 have been applied to the unmeasured lands of the hill tracts of Kumaun, and draft rules for their management have been submitted for the sanction of the Supreme Government.

4. *Demarcation.*—The new statement, Form No. 48, shows more clearly than hitherto the condition of the boundaries in the three Circles. In the Central Circle demarcation is practically complete and the repairs of boundary marks were generally attended to. In the Oudh Circle satisfactory progress was made in the renovation of marks on boundaries returned as demarcated. The system of erecting the pillars after the survey seems, however, open to question. The proper procedure, in all cases where the boundaries are sufficiently clear to allow it, is to first place on the ground all land marks which it is desired to show on the maps, and for the survey to follow after, so as to ensure the accuracy of their positions. In the School Circle it would appear from the returns that 160 miles of main boundary line and 7 miles of the boundaries of enclosures were undemarcated in the Jaunsár Division. It is believed that this is a mistake and that the boundary lines are marked in some way if not with cleared lines, and should therefore not be entered in column 6 of Form No. 48. The necessary repairs as well as the improvement of existing marks met with praiseworthy attention.

5. *Surveys.*—The chief work of the year was the completion by the Imperial Forest Survey Branch of the survey of the Pilibhit forests with an area of 151 square miles and of 98 square miles of the cis-Sarda Kheri forests. The cost so far debited to the former amounted to a little over Rs. 22 a square mile. The maps of the reserves of the Central Circle on the scale of 4 inches=1 mile, published by the Imperial Forest Survey Department, are entered as costing Rs. 115 a square mile. Minor surveys of new roads and lines as well as of certain boundaries were carried out in both the Central and School Circles. The Conservator of the School Circle, though Form 49 has been omitted from the appendices, has stated in paragraphs 14 to 16 of his report the progress

made and the work remaining to be done. The importance of keeping the existing maps up to date should be kept in view in all three Circles.

MANAGEMENT.

6. *Working Plans.*—Existing working plans and their control have been reported upon at considerable length in both the Central and School Circles, and His Honor the Lieutenant-Governor notices with satisfaction that Conservators and their officers have during the past year striven to work up to the prescriptions of the plans, and conformed to the orders on the subject. Deviations where they have occurred have been satisfactorily explained, and as the existing plans come to be revised and made to accord with the better known conditions of both the forests and the markets, their provisions will doubtless be complied with more closely.

The preparation of new working plans is proceeding with commendable activity in the Central Circle.

The revision of the Ránikhet and Naini Tal working plans may well be allowed to stand over, as proposed by the Conservator, till the originally appointed time. The Nindhaur Valley forests will be worked under the more comprehensive plan under preparation for the Kumaun Division. A new plan has been drawn up for the Rehar and Garhibulchand forests. A plan has been framed for the Lansdowne reserves, and a commencement has been made in other forests of the Garhwál Division.

In the Oudh Circle the Kheri working plan was sanctioned, and its introduction has led to the closing of the Bahramghát saw mills and to the substitution of exploitation by purchasers instead of by Government agency. Plans were in course of preparation in all the divisions of this circle by either specially deputed officers or by the Divisional Officer, but none were actually completed.

A working plan for the Saháranpur Division of the School Circle was being framed by Mr. Grenfell, the Divisional Officer.

The Conservator of the Central Circle gives in paragraph 27 of his report an interesting account of the sample areas under observation to determine the rate of growth of sál and of the results so far obtained. It is noticed that they do not afford grounds for final conclusions as to the effect of thinnings, and the results obtained by the Conservator of Oudh require the confirmation of more extended experiment.

It will, in the opinion of Sir Charles Crosthwaite, be useful if, as has been done in the Central Circle, a number of sample plots are selected and measured annually in both the Oudh and School Circles. It is noticed that plots have been recently taken up in each working circle of the Dehra Dún Division.

Plans of operations.—The works of the year were executed on the usual prearranged plans of operations, but these were not fully carried out in all instances, mainly owing to insufficiency of establishments.

WORKING OF THE YEAR.

7. *Communications and Buildings.*—The outlay on communications and buildings is shown in Forms Nos. 51 and 61. The figures for the 15 months under report compare with those of the previous year as follows :—

Circle.	*Roads and Bridges.*		*Buildings.*		Other works.	Total.	Percentage on gross expenditure.
	New work.	Repairs.	New work.	Repairs.			
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
Central	6,191	28,444	11,891	9,121	2,781	58,428	16·19
Oudh	1,752	13,190	10,897	6,046	2,484	34,369	7·51
School	10,100	*11,584	5,302	5,313	2,391	34,690	9·77
	18,043	53,218	28,090	20,480	7,656	1,27,487	10·87
Total, 1892-93 ...	71,261		48,570		7,656	1,27,487	10·87
Total, 1891-92 ...	60,964		38,113		3,951	1,03,028	10·78

* Includes contribution of Rs. 1,621 by the District Board.

The expenditure on new roads in the Central Circle was less than in the previous year, but against this more money was expended on maintenance.

In the Oudh Circle roads and bridges cost Rs. 1,312 and buildings Rs. 3,839 more than in 1891-92. The chief new work under roads in the School Circle was the part construction of the Bamsu sledge road at a cost of Rs. 6,874. The charges for maintenance were high owing to extensive repairs being necessitated by the damage caused by the heavy rains of 1892, and the exceptional fall of snow in the winter following.

The outlay in buildings was somewhat higher than usual both in the Central and Oudh Circles, and the expenditure on "*Other Works*" exceeded in all circles that of previous years. This is unexplained except in the Central Circle, where several new wells were constructed.

The desirability of providing suitable accommodation for the executive and subordinate staff has been noticed, and the Conservator of the Central Circle reports that suitable standard plans for Rangers' quarters, both in the hills and in the plains, have been worked out by Colonel Campbell. It is noted with satisfaction that this matter is receiving the attention it merits. A list of all buildings is given as Appendix B to the Central Circle report, and similar lists might with advantage be appended to all reports in future so as to show clearly the class and site of the numerous buildings now to be found dotted over the different forest tracts.

8. *Breaches of Forest Law.*—The following table exhibits the number and class of forest offences during 1891-92 and the period under report, April 1892 to June 1893 :—

Circle.		Injury to forest by fire.	Unauthorised felling or appropriation of wood and minor produce.	Illicit grazing.	Other offences.	Total.
Central	1891-92 ...	32	418	10	119	579
	1892-93 ...	36	520	30	128	714
Oudh	1891-92 ...	14	99	61	19	196
	1892-93 ...	14	84	110	1	209
School	1891-92 ...	10	39	27	29	105
	1892-93 ...	15	68	38	24	145
Total ...	1891-92 ...	56	556	101	167	880
	1892-93 ...	65	672	178	153	1,068

The return is for 15 months instead of 12, and the number of offences for equal periods corresponds very nearly with that reported in 1891-92. More cases of illicit grazing were detected in all circles, and fewer miscellaneous offences were brought to notice in Oudh.

The results of the prosecutions instituted and the cases compounded are tabulated in the following statement :—

Circle.		Cases taken into Court.				Percentage of persons convicted to persons prosecuted.	*Cases compromised under section 67.*	
		Convictions.		*Acquittals.*				
		Cases.	Persons.	Cases.	Persons.		Cases.	Persons.
Central ...	1891-92 ...	25	46	18	137	25	516	1,104
	1892-93 ...	53	103	9	24	81	662	1,021
Oudh ...	1891-92 ...	61	131	14	52	72	118	230
	1892-93 ...	95	182	10	20	90	93	229
School ...	1891-92 ...	9	80	2	6	93	92	187
	1892-93 ...	8	26	4	9	74	135	362
Total ...	1891-92 ...	95	260	34	195	57	756	1,521
	1892-93 ...	156	311	23	53	85	890	1,615

The results show a marked contrast to those of the previous year. In the Central Circle there were nine acquittals and 53 convictions, under which 81 per cent. of the persons prosecuted were

punished. The explanation given by the Conservator sufficiently establishes the fact that the cases which did not result in convictions were not wrongly prosecuted. In the Oudh Circle 95 out of 105 cases resulted in convictions. There were only 12 prosecutions in the School Circle, and of these four were unsuccessful.

The number of offences compounded under section 67 in the Central Circle was normal, and the compensation taken from each person averaged Rs. 2-6-10. The average compensation in cases similarly disposed of in the Oudh Circle rose to more than Rs. 6 owing, it is stated, to action taken on account of the illicit felling of green shisham by a purchaser. The amount of compensation exacted in this instance is not stated, but it seems probable that here, as in the School Circle, where Rs. 715 are reported to have been received from eight persons, the powers conferred by section 67, as modified by Act V of 1890, which limits the amount of compensation to Rs. 50, have been exceeded. Both Conservators will be asked for an explanation.

9. *Protection from fire.*—The results of fire protective measures compared with those of 1891-92 were as shown in the following statement:—

Circle.		Total area of Circle.	Area attempted to be protected.	Percentage of area attempted to total area of Circle.	Area actually protected.	Failures.	Percentage of failures.	Cost during the year.	Cost per acre actually protected.
		Acres.	Acres.		Acres.	Acres.		Rs.	Pies.
Central ...	1891-92 ...	1,168,761	700,269	59·91	679,028	21,241	3·03	23,608	6·67
	1892-93 ...	1,150,820	723,011	62·82	715,123	7,891	1·09	20,334	5·45
Oudh ...	1891-92 ...	791,970	631,669	80·12	596,539	38,130	6·00	19,233	6·19
	1892-93 ...	791,365	627,725	79·02	593,122	34,603	5·51	22,909	7·41
School ...	1891-92 ...	460,890	406,100	88·11	403,674	2,426	0·59	5,873	2·79
	1892-93 ...	460,796	424,663	92·16	423,659	1,004	0·23	4,783	2·16
Total ...	1891-92 ..	2,421,621	1,741,038	71·89	1,679,241	61,797	3·54	48,714	5·56
	1892-93 ...	2,403,981	1,775,402	73·79	1,731,904	43,498	2·45	48,026	5·32

The exceptional immunity from fires was due to the favourable season. The best results at the lowest cost were again obtained in the School Circle, where the large percentage of 92·16 of the entire forest area is under protection, only 1,004 acres were burnt, and the cost fell from 2·79 pies to 2·16 pies per acre. Further additions were made to the protected area in the Central Circle, which now amounts to 62·82 per cent. of the whole. The failures, amounting to 1·09 per cent. occurred almost entirely in the Bundelkhand Division, only 48 acres being burnt in other divisions. The cost was reduced

from 6·67 pies per acre in the previous year to 5·15 in that reported on. In the Oudh Circle the results were less satisfactory notwithstanding the acknowledged advantages of frequent rain throughout the hot weather. The area over which protection was attempted was, for some reason not explained in the report, less by 7,000 acres than that in the previous year, and of that area failures were recorded over 34,600 acres, or but 3,500 acres less than in 1891-92. The chief failures again took place in the Pilibhit and Bhira forests. The want of success in fire conservancy over a number of years in these forests is attributed to three causes, *viz.*,—

(a) want of a sufficiency of clear cut fire lines;

(b) the opposition or indifference of the tenantry to fire protection; and

(c) incompetency or negligence of the subordinate protective staff.

The first cause has now been removed in Pilibhit by the clearance of 31 miles of 100 feet lines and 23 miles of 50 feet lines during the past two years. Similar lines have been laid out in Bhira, and, it is said, will be cleared before the coming dry season. Orders have issued restricting the firing of the open compartments of the Puranpur forests to once a year, and then only under supervision. In Bhira the tenantry have been warned that a continuance of fires may result in the suspension of their privileges, and it may be necessary to adopt similar measures in Pilibhit; but so long as so much blame attaches to the Forest subordinates, Sir Charles Crosthwaite fears it is hopeless to look for satisfactory results. The initial difficulties to be overcome in establishing a good system of fire conservancy are fully recognised, but there is no reason why they should not be surmounted here as they have been elsewhere in the early days of protection from fire. The cost for the whole circle rose to 7·41 pies per acre actually protected, which is accounted for by the number of additional fire lines cleared.

The rules under section 25 of the Forest Act regulating the kindling of fires in the proximity of Government forests have been more widely distributed and enforced. No amendment of them has been found necessary. Their non-effectiveness previously reported seems to have been due entirely to want of publication and to no action being taken for their enforcement.

From the remarks of the Conservator of the Central Circle in paragraph 11 of his report it may be gathered that uncertainty exists as to the best means to be adopted for the protection from fire of *Pinus longifolia* forests, a matter of considerable importance as affecting the larger portion of the forests on which Naini Tal and Ránikhet depend for their wood supplies.

10. *Regulation of grazing and protection from cattle.*—The areas closed and open to grazing are returned as follows. They are given in a form which does allow comparison with previous years:—

Circle.	Closed to all animals.		Closed to browsers.		Open to all animals.	Total area	Remarks.
	Whole year.	Part of year.	Whole year.	Part of year.	Whole year.		
	Sq. miles.	Sq. miles.	Sq. miles.	Sq. miles.	Sq. miles.	Sq. miles.	
			Reserved Forests.				
Central ...	695	248	264	...	497	1,704	
Oudh ...	588	35	...	...	618	1,241	
School ...	*193	72	148	...	*386	*799	*Inclusive of leased forests.
Total ...	1,476	355	412	...	1,501	3,744	
			Protected Forests.				
Central ...	5	...	4	...	85	91	
			Unclassed Forests.				
Central ...	...	...	32	...	...	32	
Oudh ...	1	...	...	...	2	3	
School ...	1	...	...	...	13	14	
Total ...	2	...	32	...	15	49	
GRAND TOTAL, ALL FORESTS.	1,483	355	448	...	1,601	3,887	

The Conservator of the Central Circle has set forth in detail in paragraphs 43—46 of his report the general distribution of grazing over the open areas. Similar information is given for the Oudh forests in paragraph 49 of the report, where the percentage of closed areas is stated to be too small and excessive grazing has led to the deterioration of forest growth. In some cases it is stated that the number of cattle admitted to graze is so large proportionately to the open area as to prevent both the improvement and the rational working of the forests. An additional closure of 46 square miles has been sanctioned in Kheri, the Conservator has been authorised to catch and remove the herds of wild cattle from the Bhinga forests, and His Honor the Lieutenant-Governor is prepared to consider proposals for localising and further limiting grazing wherever this can be done without unduly restricting existing rights or the reasonable requirements of the neighbouring population. On the other hand Conservators are expected to see that closed areas are properly protected from cattle. This, to judge from correspondence relating to the working of some of the forests in Oudh, which has been under consideration, does not seem to have been always done.

New rules for the admission of cattle to the Dehra Dún and Sahárnpur forests have received the approval of Government.

11. *Natural reproduction.*—The brief remarks of the three Conservators on this subject are interesting and to the point. They may be summarised as follows.

In the hill forests of the Central Circle the Conservator asserts that too much reliance has been placed on the advance growth of chír, which has suffered from suppression and injury, from which it has not the power to recover; and he proposes to aid the natural growth by the preparation of the soil for the reception of chír seed and by the sowing of acorns. The Conservator of the School Circle comments on the satisfactory progress made both by deodár and chír, and notes the abundant seeding of deodár and the oaks, as well as the failure of *Pinus excelsa* to bear seed. The sál tree did not seed, but the observation of its good reproduction in forests protected from fire and grazing is again repeated. No measures other than protection are recommended in order to favour the natural regeneration of sál. There are grounds for the hope that as soon as inferior species spring up and afford the necessary protection the tree will gradually spread in places where it is at present kept back by frost or the unfavourable conditions of the soil. The reproduction of teak and other trees is noticeable in certain forests of the Bundelkhand Division.

12. *Artificial reproduction.*—The expenditure of the past two years is compared in the margin. There were no additions to regular plantations. In the Central Circle Rs. 1,398, exclusive of Rs. 732 for permanent establishment were expended in keeping up the Ránikhet orchard. A proposal to let this orchard to a suitable tenant was accepted in 1892, but the Conservator has now shown that by dispensing with the services of a special Superintendent, making better arrangements for selling the fruit, and allowing for the plants distributed free, the income can be made to cover the expenditure: and Government have decided to keep up the garden on its present footing. It has served in the past to stimulate the cultivation of fruit in Kumaun, as well as to supply grafts to distant parts of the country, and the fact that more than 11,000* grafted fruit trees were sent out last year proves that its usefulness still continues. Cultural operations were limited in the Central Circle to sowings of oak and to planting out of deodár and cypress in blank spaces. The Conservator lays stress on the desirability of making the sowings of chír and oak the main operations in the Naini Tal Division rather than the planting out of exotics here and there. A special report on the continued failure of cultural operations in the Bundelkhand Division, remarked upon in the review of last year's reports, shows that some of the areas written off were wrongly termed failures, and that about half were fairly stocked. It is not explained why no new areas have been treated. In Oudh only the areas of previous years were tended. The sál sowings in clear felled strips in Gorakhpur are said to have so far succeeded. The expenditure in the School Circle has increased from Rs. 1,303 in 1890-91 and Rs. 3,644 in 1891-92 to Rs. 9,197 during the period under report. The

Circle.	Years.	
	1891-92.	1892-93.
	Rs.	Rs.
Central ...	2,166	2,601
Oudh	636	304
School	3,644	9,197
Total ...	6,446	12,102

*1,688 on payment: 9,501 free.

results recorded in the Dehra Dún and Saháranpur Divisions are not in His Honor's opinion commensurate with the expenditure. The more extended operations undertaken by the Conservator meet with approval as desirable for the improvement of the forests, and as necessary for the course of instruction at the Forest School; but it may be doubted whether the planting out of bamboos at a cost of 4½ annas each, as in the Johra block, or the cultural work in Lachiwala and Ranipur, costing Rs. 64 and Rs. 76 an acre, are justifiable in the interests either of forest improvement or of practical teaching. The cost of these operations should probably be much reduced. Good work was done in Jaunsár, where 208 acres were added, and a large number of plants, chiefly deodár, were put out at a total cost of Rs. 5,174.

13. *Early thinnings.*—The only thinnings carried out in the Central Circle were in the Nindhaur forests, and these do not appear to have been satisfactorily done, a result which is attributed to purchasers not coming forward to take away the produce of the thinnings. The Conservator purposes to have them made by departmental agency in the future. Bamboo clumps were again experimentally thinned out in the Dehra Dún and Saháranpur Divisions and the results obtained by these thinnings will be interesting. The cutting back of badly grown and damaged trees, as well as the ringing of inferior species, was carried out over considerable areas in the School Circle. The work of girdling 26,570 trees in the Dehra Dún Division was cheaply done at a cost of Rs. 417. Creepers were cut over an area of 80 square miles in the Central Circle at a cost varying from 5 to 15 pies per acre, and over 14 square miles in the School Circle at a cost of 26 pies per acre. In Oudh 68 square miles were operated on at a cost varying from 5 to 13 pies per acre.

14. *Experiments.*—The experiments in the Kumaun Division, which went to show that the smaller the khair tree the greater the yield of catechu, are considered by the Conservator to have been worthless, because they only resulted in the extraction of a fractional part of what is believed to be the possible yield of the wood; and further experiments were conducted on too small a scale and with too little care to throw any light on the subject. The cultivation of lac is under trial in the School Circle. The experimental planting of date palms in the Bundelkhand Division is, so far, favourably reported upon. Of exotic trees the *Robinia Pusedo Acacia* succeeds at Naini Tal; *Cryptomeria Japonica* and *Pinus Khasya* are doing well at Chakráta.

15. *Exploitation of major forest produce.*—The different classes of fellings are described by each Conservator, but the number of trees felled or the acreage cut over are not in all instances given. It seems desirable that the acreage, at least, should be given in future. The construction of railways has much facilitated the removal and transport of forest produce in all parts of the Oudh Circle. The

removal and conversion are now done by purchasers, and the only departmental work of this nature now carried on is that connected with the disposal of fuel, which for reasons explained in the report does not yet attract private enterprise. The Thadiar sledge road in Jaunsár served for the transport of 390,536 sleepers and scantlings, and saved Rs. 29,061 in the cost of carriage. It has been of further advantage in obviating the stoppage of work for want of labour which would occur in times of scarcity and cholera if the sleepers had to be carried by coolies.

16. *Exploitation of minor forest produce.*—The receipts from grazing and the sale of fodder grass for the 15 months under notice compare with those of the previous year as follows :—

	1891-92.	1892-93.
	Rs.	Rs.
Central Circle	35,391	32,728
Oudh	52,726	63,166
School	34,190	31,515
Total ...	1,22,307	1,27,409

It is explained for the Central Circle that the forests provided grazing worth, at full rates, Rs. 60,790, of which in round numbers Rs. 36,000 worth is given free and Rs. 24,000 worth paid for.

17. The distillation of crude resin has continued in the School Circle, and as a market has now been found for the turpentine as well as for the resin the extension of the industry will be considered. It is reported from the same circle that the demand for wood tar and pitch has not increased. The development of the trade in the gum of the *Bauhinia retusa* is receiving attention, and experiments in collecting and cultivating lac are being carried out by Mr. Gamble.

18. *Gross yield and outturn of forest produce.*—The elaborate statement of facts under this head hitherto drawn up by Conservators has been discontinued on the grounds that the prescribed statements appended to the reports contained almost identical information which it was unnecessary to tabulate in a different form.

The returns (Forms Nos. 57, 58 and 59) refer to a period of fifteen months in all circles, and are subdivided to show the first 3 and last 12 months separately in the Oudh Circle only. No regular comparison with the outturn of previous years is therefore possible. A reference to the abstract given below of timber, fuel and minor produce removed from the forests during the period under report and the agency by which the products were removed shows that there has been no lack of activity in exploiting the forests and no falling off in the outturn.

Total outturn of the Forests.

	In cubic feet (000's omitted).								
	Class.					*By whom removed.*			
	Total outturn.	Selection fellings.	Improvement fellings.	Coppice fellings.	Unregulated fellings.	Government agency.	Purchasers.	Free grantees.	Right-holders.
Central Circle.									
For the 15 months, 1st April 1892 to 30th June 1893.									
Timber	15,01,	6,69,	3,59,	7,	4,69,	81,	12,26,	12,	1,85,
Firewood	33,95,	4,41,	1,95,	44,	27,13,	2,59,	17,36,	2,	13,98,
Minor produce	Rs. 3,01,135	...	...	...	...	Rs. 9,816	Rs. 2,55,155	Rs. 110	Rs. 36,354
Oudh Circle.									
For the 15 months, 1st April 1892 to 30th June 1893.									
Timber	36,68,	81,	2,01,	4,	33,78,	3,58,	10,45,	16,18,	6,48,
Firewood	18,59,	...	25,32,	5,88,	17,38,	36,90,	7,02,	2,73,	1,93,
Minor produce	Rs. 1,50,555	...	...	...	...	Rs. 32,672	Rs. 98,656	Rs. 13,192	Rs. 5,745
School Circle.									
For the 15 months, 1st April 1892 to 30th June 1893.									
Timber	10,17,	7,94,	1,58,	3,	62,	2,95,	7,07,	15,	...
Firewood	25,20,	10,95,	57,	2,39,	11,29,	1,61,	4,74,	9,81,	6,01,
Minor produce	Rs. 80,179	...	...	...	...	Rs. 9,681	Rs. 57,211	Rs. 12,080	Rs. 1,207
Gross Total.									
Timber	61,89,	15,47,	7,19,	11,	39,08,	7,31,	29,78,	16,45,	8,33,
Firewood	1,07,74,	15,39,	27,83,	8,71,	55,80,	44,11,	29,12,	12,56,	21,95,
Minor produce	Rs. 5,32,169	...	...	...	...	Rs. 52,169	Rs. 4,11,022	Rs. 25,682	Rs. 13,296
1891-92. Timber	12,05,	15,71,	5,38,	...	20,93,	5,71,	20,21,	12,11,	3,96,
1891-92. Firewood	76,73,	16,92,	17,10,	...	42,71,	18,20,	24,57,	18,55,	15,41,
1891-92. Minor produce ...	Rs. 1,69,610	...	...	...	...	Rs. 39,977	Rs. 3,51,816	Rs. 69,980	Rs. 7,07

The removals of timber and firewood by the different agencies compare with those of 1891-92 in the different circles as follows :—

		Government Agency.				Purchasers.				Free Grantees.				Right-holders.			
		Central Circle.	Oudh Circle.	School Circle.	Total.	Central Circle.	Oudh Circle.	School Circle.	Total.	Central Circle.	Oudh Circle.	School Circle.	Total.	Central Circle.	Oudh Circle.	School Circle.	Total.
		Cubic feet (000's omitted).															
Timber	1891-92,	14,	2,88,	2,72,	5,74,	7,55,	6,05,	6,61,	20,21,	45,	10,80,	89,	12,14,	1,58,	2,38,	...	3,96,
	1892-93,	81,	3,58,	2,95,	7,31,	12,26,	10,45,	7,07,	29,78,	12,	16,18,	15,	16,45,	1,85,	6,18,	...	8,33,
Fire-wood.	1891-92,	1,66	14,01,	2,53,	18,20,	10,92,	8,58,	5,07,	24,57,	6,	2,85,	15,64,	18,55,	13,60,	1,81,	...	15,41,
	1892-93,	2,59,	36 90,	1,61,	41,11,	17,36,	7,02	4,74,	29,13,	2,	2,73,	9,81,	12,56,	13,98,	1,93,	6,04,	21,95,

19. The increases under departmental agency were mainly due to the longer period to which the returns relate, and to more extensive working out of firewood in Oudh. The reclassification of timber used departmentally explains the difference in the Central Circle. It is noticeable that less fuel was removed by purchasers in both the Oudh and Central Circles. The figures under free grants and removals by right-holders appear to be entered on different principles in each circle. In the Central Circle it has been customary to include timber used for Government purposes under free grants, and in one circle temporary concessions made by Government are correctly entered in the column for right-holders, while they would seem to be treated as free grants in other circles. It is desirable that a uniform system of compiling the statements should be adopted, and that estimates of right-holders' consumptions should also be framed on the same basis in all circles. Further the review of the year's results would be facilitated if Conservators would follow in Chapter III the sub-heads indicated in paragraph 266 of the Code, and compare the outturn under each with that of the previous year.

20. The value of the timber and fuel in stock in the departmental depôts at the beginning and the end of the period under report is shown in the following table:—

Depôt stocks of timber and firewood.

Circle.		At beginning, viz., 1st April 1892.		At end, viz., 30th June 1893.	
		Quantity.	Value.	Quantity.	Value.
		C. ft.	Rs.	C. ft.	Rs.
Central ...	Timber	1,461	1,084	23,089	1,367
	Firewood	1,734	108	9,700	631
Oudh ...	Timber	981,075	6,44,879	510,773	3,81,993
	Firewood	360,797	16,689	1,087,556	55,978
School ...	Timber	232,387	1,97,541	231,472	2,02,814
	Firewood	133,347	24,919	196,939	20,570

21. *Financial.*—The results for the financial year were:—

		Rs.		Rs.
Receipts ...	...	...	...	16,52,537
Expenditure A	...	5,82,468	...	9,28,455
„ B	...	3,45,987		
		Surplus	...	7,24,082

and the following statement shows the receipts, expenditure and surplus during each of the last financial five years distributed over the three circles:—

Receipts, Expenditure and Surplus.

Circle.	Receipts.					Expenditure.					Surplus.				
	1888-89.	1889-90.	1890-91.	1891-92.	1892-93.	1888-89.	1889-90.	1890-91.	1891-92.	1892-93.	1888-89.	1889-90.	1890-91.	1891-92.	1892-93.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Central ...	5,32,833	5,92,943	5,80,384	5,31,274	5,58,644	2,54,400	2,50,020	2,40,568	2,76,306	2,84,029	2,78,433	3,33,023	3,30,816	2,50,968	2,74,615
Oudh ...	5,39,654	6,48,550	7,08,967	7,68,967	7,94,048	3,16,879	4,32,127	4,02,716	4,01,137	3,50,575	2,22,775	2,56,429	3,06,251	3,67,830	4,37,473
School ...	3,90,315	4,32,600	3,49,528	4,39,272	2,99,845	2,67,470	2,71,101	2,08,613	2,77,717	2,87,851	1,22,845	1,61,550	81,015	1,61,555	11,994
Total ..	14,62,802	17,14,159	16,37,879	17,31,513	16,52,537	8,38,749	9,63,151	8,18,897	9,55,220	9,28,455	6,24,053	7,51,008	7,18,082	7,76,293	7,24,082

No complete accounts for the Forest year (July 1892 to June 1893) are before Government. They should be returned for each circle in the next annual reports in order to allow a comparison to be made with the financial results of the current Forest year. Of the reports under review only those for the Central and Oudh Circles contain the information.

22. The following tables compare the chief financial details for the fifteen months under report with those of 1891-92 :—

Receipts and Expenditure under the headings of Departmental Timber Operations, other Revenue and Organization &c. of Forests.

Circle.		Departmental Timber Operations.			Other Revenue.			Organization, improvement and extension of forests.	Net surplus.
		Receipts.	Charges.	Surplus.	Receipts.	Charges.	Surplus.		
		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Central ...	1891-92 ...	44,451	35,736	8,715	4,88,823	1,15,076	3,73,747	1,25,551	2,56,908
	1892-93 ...	65,905	48,284	17,621	7,19,716	1,51,649	5,68,067	1,60,867	4,24,821
Oudh ...	1891-92 ...	4,51,931	2,75,098	1,76,833	3,07,036	61,613	2,45,393	64,396	3,57,830
	1892-93 ...	4,98,832	2,48,487	2,50,345	4,10,684	92,667	3,18,017	1,15,912	4,52,450
School ...	1891-92 ...	2,59,345	1,57,587	1,01,758	1,79,927	38,873	1,41,054	81,257	1,61,555
	1892-93 ...	2,44,626	2,02,633	41,893	1,91,275	45,538	1,48,737	1,06,719	83,911
Total ...	1891-92 ...	7,55,727	4,68,421	2,87,306	9,75,786	2,15,592	7,60,194	2,71,207	7,76,293
	1892-93 ...	8,09,263	4,99,404	3,09,859	13,24,675	2,89,851	10,34,821	3,83,498	9,61,182

Details of Receipts under the principal budget heads for the fifteen months ending 30th June 1893, with the figures of the previous Financial year.

Circle.	Timber and other produce removed from the forests by Government agency.		Timber and other produce removed from the forests by consumers and purchasers.		Confiscated drift and waif wood.		Forests not managed by Government.		Miscellaneous.		Total in 1892-93.
	1891-92.	1892-93.	1891-92.	1892-93.	1891-92.	1892-93.	1891-92.	1892-93.	1891-92.	1892-93.	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Central ...	44,451	65,905	4,81,040	7,00,469	1,695	832	...	...	6,088	18,415	7,85,621
Oudh ...	4,51,931	4,98,832	2,76,759	3,74,651	16,839	13,186	...	...	13,439	22,847	9,09,516
School ...	2,56,704	2,39,932	1,54 796	1,76,807	3,959	7,481	8,179	8,569	15,634	6,012	4,38,801
Total ...	7,53,086	8,04,669	9,12,595	12,51,927	22,193	21,499	8,179	8,569	35,161	47,274	21,33,938

Expenditure on Conservancy and Works for the fifteen months ending 30th June 1893 with the figures of the previous Financial year.

Circle.		Timber and other produce removed by Government agency.	Timber and other produce removed by consumers and purchasers.	Confiscated drift and waif wood.	Rent on leased forests.	Live stock, stores, tools and plant.	Communications and buildings.	Organization, improvement and extension of forests.	Miscellaneous.	Total.
		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Central ...	1891-92 ...	23,631	26,387	6	507	13,157	54,740	36,193	1,367	1,55,988
	1892-93 ...	31,663	35,283	...	744	10,991	58,428	44,995	2,813	1,87,920
Oudh ...	1891-92 ...	2,06,078	11,027	8,202	...	8,710	27,957	22,061	10,252	2,94,377
	1892-93 ...	1 74,784	11,817	7,1[illegible]6	...	11,599	34,369	60,599	9,804	3,10,098
School ...	1891-92 ...	1,07,148	3,112	1,679	12,551	3,792	20,331	20,813	*11,207	1,80,936
	1892-93 ...	1,39,148	2,148	2,947	12,927	5,119	33,069	32,685	†10,212	2,38,255
Total ...	1891-92 ...	3,37,157	40,526	9,977	13,061	25,659	1,03,028	79,067	22,826	6,31,301
	1892-93 ...	3,48,595	49,248	10,073	13,671	27,712	1,25,866	1,38,279	22,829	7,36,273

* Includes Rs. 1,778, being expenditure on forests not managed by Government.
† Includes Rs. 4,950, ditto ditto.

Expenditure on establishments for the fifteen months ending 30th June 1893 with the figures of the previous Financial year.

Circle.	*Salaries.*		*Travelling allowances.*		*Contingencies.*		*Total.*	
	1891-92.	1892-93.	1891-92.	1892-93	1891-92.	1892-93.	1891-92.	1892-93.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Central	97,723	1,11,653	15,419	21,826	7,236	9,401	1,20,378	1,72,889
Oudh	85,662	1,18,745	13,944	18,224	7,154	9,999	1,06,760	1,46,968
School	81,332	1,01,673	7,020	8,811	5,428	6,151	96,780	1,16,635
Total ...	2,67,717	3,62,071	36,383	48,861	19,818	25,551	3,23,918	4,36,483

23. The Oudh Circle shows the largest surplus on record, a result partly attributable to the sale during the year of timber in stock to the value of two lakhs of rupees. The steady development of the resources of this Circle is a matter for which the Forest Officers of Oudh deserve credit. In the Central Circle the surplus exceeds that of the previous year. The decreased receipts in the School Circle were principally due to the Rájputána-Málwa Railway having purchased fewer sleepers under the terms of the new contract, and also to the non-payment during the year by the North-Western Railway for 31,400 broad-gauge sleepers, the value of which amounted to Rs. 85,368. It is a matter of regret that the delay in bringing out the sleepers

should have operated so as to make the year's results appear unfavourable. But for this deferred adjustment the surplus of the financial year would have amounted to Rs. 8,09,450 and been the highest ever yet obtained in these provinces.

24. The balances of revenue outstanding in the Oudh and School Circles are again considerable, being Rs. 42,534 and Rs. 33,335 respectively. In the former circle this is an increase on last year's amount. In the School Circle a reduction of Rs. 14,000 has been effected, but the outstanding is still very large. As noticed last year no explanation of these balances has been given.

25. *Administration.*—The charge of the Central Circle was held by Mr. Wild, Mr. Bagshawe and Mr. H. C. Hill, each for short periods. Mr. Gamble and Mr. Eardley-Wilmot remained throughout the year in charge of the School and Oudh Circles respectively. There was no change in the number of divisional charges during the year. The Bahramghát saw mills have been closed, and new executive charges were formed in the Central Circle in anticipation of sanction being accorded to the reorganisation of the subordinate staff. The Lieutenant-Governor recognizes the difficulty that will be felt in giving effect to the new detailed working of the forests, systematized by working plans, unless the necessary additions to the executive staff are promptly sanctioned, and he trusts the steady and material progress being made in forest administration may not be arrested by deferring an outlay which is on all sides considered necessary and which will be speedily recouped by increased receipts. It was found necessary to strengthen the staff of Rangers in Oudh by permitting three vaccancies in the Provincial List to be filled up in that circle, and a number of students have been admitted to the Forest School in order to fill up the new appointments which were provided for in the reorganisation scheme. Failing sanction to increased permanent establishment, assistance in the shape of temporary establishment will probably have to be given in the Central and School Circles.

The work of the subordinate and office establishments is well reported on by all Conservators, but again punishments and dismissals have been numerous in Oudh.

Divisional officers have generally given satisfaction, but it is hoped that in a few instances, notably in the Pilibhit Division, where fire conservancy was not as successful as it might have been, the supervision may be more efficient in future.

Conservators have rendered good service, and the record of the year's work found in the three reports satisfies the Lieutenant-Governor that the respective charges have been administered in a manner deserving of commendation. The reports consequent on the introduction of a new arrangement and new forms do not always

convey information with that uniformity which is desirable, and those of the Central and School Circles exceed the prescribed length.

By order &c.

W. C. BENETT,

Secy. to Govt., N.-W. P. and Oudh.

No. $\frac{100F.}{XIV-663A-18}$.

ORDERED that a copy of the above Resolution (with copy of the Report) be forwarded to the Conservators of Forests, Central, Oudh and School Circles, for information and guidance.

No. $\frac{101F.}{XIV-663A-19}$.

Ordered also that a copy (with copy of Report) be forwarded to the Commissioners of Meerut, Benares, Gorakhpur, Rohilkhand, Allahabad, Kumaun, Lucknow and Fyzabad Divisions for information.

No. $\frac{102F.}{XIV-663A-20}$.

Ordered also that a copy (with copy of Report) be forwarded to the Comptroller-General, Forest Branch, for information.

No. $\frac{103F.}{XIV-663A-21}$.

Ordered also that a copy (with copy of Report) be forwarded to the Inspector-General of Forests to the Government of India for information.

By order &c.,

F. E. TAYLOR,

Under-Secy. to Govt., N.-W. P. and Oudh.

No. 633-F., dated Simla, the 15th June 1894.

From—SIR E. C. BUCK., KT., C.S.I., Secretary to the Government of India, Department of Revenue and Agriculture,

To—The Government of the North-Western Provinces and Oudh, Revenue (Forests Department.

I am directed to acknowledge the receipt of your letter No. $\frac{114\text{-F.}}{663\text{ A.}}$, dated the 3rd March last, forwarding the Annual Reports on the administration of the Forest Department in the North-Western Provinces and Oudh for the period of fifteen months ending 30th June 1893, together with a copy of His Honour the Lieutenant-Governor's orders thereon. The reports were received in this Department two months after the prescribed date, but their more punctual submission may, it is understood, be anticipated in future.

2. As Sir Charles Crosthwaite has, in the summaries contained in his review dealt exhaustively with the subject matter of the reports, and has expressed views with which the Government of India fully concur, it is unnecessary to make more than a few general remarks in this letter. The progress made in recent years has been important. It is no doubt largely attributable to the interest displayed by the Local Government in the settlement of forest questions, but also in some part to the equipment of the province with capable forest officers, whose aim it has been to place the permanent constitution and current management of the forests on a safe basis, and to secure an effective demand for forest-produce proportionate to the general development of the country. Mr. Wilmot's excellent work in Oudh affords an illustration of the valuable results which can in a few years be obtained by intelligent organization in this direction.

3. The following matters are noticed with satisfaction. The efforts made to remedy past errors in forest settlements; the improvement of forest demarcation and of measures directed against fire; the introduction of a system under which purchasers themselves undertake the removal of forest produce; progress made in working-plans, in the preparation of which exceptional activity is discernible in all three circles. The Government of India are advised indeed by the Inspector General of Forests that the plans recently drawn up compare very advantageously, by reason of their practical simplicity and the clearness with which the objects sought for are explained and justified, with the more elaborate and often unsuitable schemes of work prepared in past years. Two of those submitted during the year are the work of native Extra-Assistant Conservators, who have exhibited such sound knowledge of forestry as to prove the ability of natives of this country to apply in practice the technical learning acquired at the Imperial Forest School.

4. The returns appended to the Conservator's reports show that, as remarked in His Honour's review, there was "no lack of activity in exploiting the forests and no falling off in the outturn." Progress in works of forest utilization and improvement was, however, hampered by the inadequacy of the executive and protective staffs, the separate representations by the Local Government on which subject are under consideration.

5. The financial results may be tabulated as follows:—

Year.	Circle.	Receipts.	Charges.	Surplus.	Proportion of Surplus to gross Receipts.
		Rs.	Rs.	Rs.	Per cent.
Forest year 1892-93 (1st July 1892 to 30th June 1893).	Central Circle ...	5,06,987	2,01,739	3,05,248	51
	Oudh Circle ...	7,50,227	3,75,645	3,74,582	50
	School Circle ...	3,99,055	2,86,027	1,13,028	28
	Total ...	17,46,269	9,53,411	7,92,858	45
Financial year ...	Central Circle ...	5,58,644	2,84,029	2,74,615	48
	Oudh Circle ...	7,94,048	3,56,575	4,37,473	55
	School Circle ...	2,99,845	2,87,851	11,994	4
	Total in 1892-93 ...	16,52,537	9,28,455	7,24,082	44
	" 1891-92 ...	17,31,514	9,58,211	7,73,303	45
	Decrease in 1892-93	78,977	29,756	49,221	1
	Average for the 5 years ending 1891-92.	15,58,762	9,03,170	6,55,592	42

	North-Western Provinces and Oudh, 1892-93.	Empire, 1891-92.
	Amount.	Amount.
	Rs.	Rs.
GROSS RECEIPTS. (a) Wood	13,61,546	1,12,46,538
(b) Minor forest produce	1,30,143	15,35,065
(c) Grazing	1,12,415	19,56,506
(d) Revenue from forests not managed by Government	6,773	2,84,393
(e) Miscellaneous	41,660	3,94,508
TOTAL REVENUE ...	16,52,537	1,54,17,010

			Amount.	Proportion of Expenditure to gross Revenue.	Amount.	Proportion of Expenditure to gross Revenue.
			Rs.	Per cent.	Rs.	Per cent.
EXPENDITURE. A. Recurring.	(a) Administration.	(i) Superior staff ...	1,96,736	11·90	17,65,749	11·45
		(ii) Subordinate staff (including Rangers, Foresters and Guards).	8[illegible],359	4·92	12,56,781	8·15
		(iii) Office establishments (including contingencies).	61,892	3·75	6,41,083	4·16
	(b) Working.	(1) Extraction	3,23,451	19·57	28,85,611	18·72
		(2) Roads and Buildings ...	1,04,749	6·34	3,13,365	2·03
		(3) Fire-protection ...	46,120	2·79	2,40,096	1·56
		(4) Cultural operations ...	26,790	1·62	3,26,905	2·12
		(5) Live-stock, stores and plant	23,143	1·40	2,50,124	1·62
		(6) Working plans* ...	585	0·04	29,605	0·19
		(7) Rent for leased forests ...	12,063	0·73	1,14,369	0·74
		(8) Miscellaneous ...	12,844	0·78	1,20,957	0·79
	(c) Expenditure on realization of revenue from forests not managed by Government		4,449	0·27	9,373	0·06
	(d) Forest Science and Education (including all "A" and "B" charges of Forest School)		6,001	0·36	80,417	0·52
	TOTAL ...		9,00,182	54·47	80,34,435	52·11
B. Extraordinary.	(e) Forest settlements		2,687	0·16	35,881	0·23
	(f) Forest surveys		7,065	0·43	4,86,897	3·16
	(g) Forest demarcation		18,521	1·12	1,36,969	0·89
	TOTAL ...		28,273	1·71	6,59,747	4·28
	GRAND TOTAL, EXPENDITURE ...		9,28,455	56·18	86,94,182	56·39
	Net Revenue ...		7,34,082	43·82	67,22,828	43·61
			...	100·	...	100

* Exclusive of "B" charges.

Both the gross and net revenues were slightly reduced, as compared with the results obtained in the preceding financial year; but the surplus was considerably in excess (Rs. 68,490) of the average figure for the half-decade ending 1891-92 and for the Oudh Circle was the largest hitherto obtained. As pointed out in paragraph 23 of the Lieutenant-Governor's orders, the results for the provinces would have been the most favourable on record, had it not been for the deferred adjustment of a considerable item of revenue (Rs. 85,000), which should have been credited in the accounts of the year.

The conservancy and management of the valuable forests of the North-Western Provinces and Oudh have, it is evident from the reports under review been characterized by energy and ability, and the local administration may fairly claim to have secured a leading place among the provincial Forest Departments.

The progress which has been effected since the first constitution of the Forest Department in the North-Western Provinces, can best be gauged by comparing the reports under review with those enclosed in Mr. Woodburn's letter No. 681-F., dated 14th September 1891.

A perusal of these papers, which contain a short summary of the early history of forest administration, gives a very clear comprehension of the extent to which the principles of economic forestry, as practised in Europe, have since then received effective application in the North-Western Provinces and Oudh.